Establishment of Seafarer Excellence Network of the Asia-Pacific

APEC Transportation Working Group

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APEC Project: TPT 02 2018A

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CHAPTER 1

Introduction to the APEC Project TPT 02 2018A:

Establishment of Seafarer Excellence Network of the Asia Pacific

1. Overview

1.1. Introduction

The purpose of this project is to establish an inclusive, high-quality one-stop online portal and offline network to meet the demands of the current and emerging needs of the shipping industry and seafarers of the APEC region. This network will focus on the lifecycle of seafarers’ career development with five specific phases (i.e. maritime education and training, pre-sea service, recruitment, sea service, post-sea service and professional development). The successful implementation of this project is expected to play a pivotal role in promoting information, knowledge, and skills-transfer for seafarers, industry, academia, and related entities. Current state of affairs in various Asia-Pacific regions suggests scattered efforts to enhance the capacity of local and global shipping industries, prompting the pertinent shift of attention to a uniformed approach in attaining resource effectiveness in respect to manpower, funding and time. A cooperation for a wide range of seafarer-related issues will be actively sought which includes but are not limited to, strengthening employability through online and offline maritime education and training, attaining better welfare by providing collaborative supports, re-training for job transitions in the digital age to come, and thereby ensuring a high degree of work-life balance on-board vessels as well as ashore.

The Aims of the Project are:

- **To hold the first international workshop for SENAP in August 2018** to create a future action plan on how to develop, maintain and manage this network in a highly systematic and organized manner along with the timelines of key activities by best utilizing funding, manpower, and resources to be mutually shared and contributed by APEC economies.

- **To launch an inclusive and comprehensive one-stop portal** projected for February 2019, where a wide range of seafarers’ solutions such as maritime education and training, welfare and career development can be openly shared and actively discussed among seafarers, academia, industry and relevant entities within APEC economies.

The expected beneficiaries of this inclusive APEC project will be relevant stakeholders in the seafarer-related maritime industry within the APEC region including:

- Seafarers
- Ship Owners and ship management companies located in APEC region and/or hiring our seafarers
- Academia
• Other related entities

The following events will be held on 21-23 August 2018 in Korea Institute of Maritime and Fisheries Technology, Busan, Republic Korea for the successful achievement of the project aims stated above.

1) 1st APEC Workshop on Seafarers Excellence Network of the Asia Pacific: Three-day workshop for the establishment of Strategic Management of SENAP by forming five specialized task force teams for creating a blueprint with detailed strategies and action plans of the SENAP, and for developing the contents of capacity building programs and knowledge-transfer

2) Opening Ceremony of Seafarers Excellence Network of the Asia Pacific: Ribbon-cutting ceremony for SENAP secretariat office

3) Online Taskforce Team Meetings: the organization of task force teams to draw a feasible and practical cross-border program for APEC

4) SENAP, Industry’s One-Stop Portal for Highly Skilled Marines: a global-level online portal for seafarers will be launched with five phases of seafarer development from job entry to career transition aligned with future technical advancement (i.e. training and education, pre-sea service, recruitment, sea service and post-sea service and professional development)

The details of the provisional agenda items are illustrated as below:

1) Offline and Online Maritime Education and Training

• Co-developed major MET programs within APEC to enhance seafarers’ capacity (e.g. onboard training, global leadership mind-set in a multicultural work environment on board, maritime English communication, professional courses, such as LNG cargo and ballast handling, to nurture certified personnel in different maritime fields)

• Design of IMO STCW and the model courses based on high-quality standardized MET courses and contents (e.g. detailed lesson plans, training materials for class and self-study) and certificates mutually approved within APEC economies upon successful completion

• The establishment and provision of varied train-the-trainer MET courses to improve instructors; capacity and designate them as APEC-accredited instructors

• Facilitating lifelong distance learning by sharing an online platform within APEC economies to better support seafarers’ education and training both onboard and shore

• An interconnected online platform between career development and lifelong learning
for seafarers to identify what qualifications are required for further professional development and job transition and on that basis, take relevant courses and certificates

2) Seafarers’ Career Development and Transition

- Information on key skills and qualifications for seafarers’ future career transition into a relevant maritime industry and a step-by-step guideline for each career path
- Activities encouraging connection between international shipping companies and well-qualified APEC seafarers for the promotion of their job entry into the global shipping market
- The provision of an APEC career plan and development information sharing platform for seafarers
- A regular workshop and seminar for seafarers’ job entry into another field in a relevant maritime industry based on their seafaring expertise onboard the ship
- Identification of seafarers’ key competencies and provision of required education and training for job transition in the era of autonomous ships in the digital age to come
- APEC joint efforts to eliminate information gap in the introduction and development of autonomous ships among economies and to express unified views in the decision-making process within international bodies such as IMO and ILO as seafaring economies

3) Mutual Efforts to Realize Seafarers’ Better Welfare

- Seafarers’ health-care service system in both physical and mental aspects (e.g., medical information sharing platform to better support emergency medical care onboard ships and at ports, increasing access to counselling and psychotherapy for seafarers, developing professional courses specifically for seafarers’ mental care to invite expertise in other sectors to seafarers’ domain)
- Awareness-raising activities to better and more actively promote seafarers’ human rights and welfare through APEC social media campaigns
- Supporting woman seafarers by assisting in their successful job entry into the shipping market and expanding their professional scope in the maritime field in the future through a broad spectrum of APEC-led activities
## 1.2. Project Proposal

<table>
<thead>
<tr>
<th>Project title and number</th>
<th>TPT 02 2018A – Establishment of the Seafarer Excellence Network of the Asia Pacific (SENAP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fund source</td>
<td>APEC Support Fund (ASF) – Sub-Fund: Connectivity</td>
</tr>
<tr>
<td>APEC forum</td>
<td>Transportation Working Group</td>
</tr>
<tr>
<td>Proposing APEC economy</td>
<td>Republic of Korea</td>
</tr>
<tr>
<td>Co-sponsoring economies</td>
<td>China; Indonesia; Malaysia; Papua New Guinea; Peru; Philippines; Chinese Taipei; Thailand; USA; Viet Nam</td>
</tr>
<tr>
<td>Expected start date</td>
<td>August 2018</td>
</tr>
<tr>
<td>Expected completion date</td>
<td>March 2019</td>
</tr>
</tbody>
</table>

### Project Summary

Over 90% of intra-regional trade in APEC is facilitated by the maritime industry. Despite advances in technology and the prospects of a safe and readily available fleet of autonomous vessels, the industry will still require a highly educated, fully credentialed, and efficient maritime workforce that maintains the highest standards of professionalism, ethical conduct, and commitment to excellence for at least the next three decades. Yet, today’s maritime workforce is fragmented and not optimized to meet the immediate demands of industry and seafarers, including readiness for the digital age of shipping. The Seafarer Excellence Network of the Asia Pacific (SENAP) aims to fix this problem. SENAP will be a comprehensive, one-stop portal and offline network serving the needs of both seafarers and users of seafarers. Starting from the opening ceremony of the SENAP secretariat office (Busan, Republic of Korea in August 2018), the following activities will be successfully completed during eight months of the project period: the 1st APEC SENAP workshop, the establishment of SENAP one-stop online portal for highly-skilled mariners, and publication of SENAP strategic management plan as a final report.

<table>
<thead>
<tr>
<th>proposed budget (USD)</th>
<th>APEC funding</th>
<th>Self-funding</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>68,945</td>
<td>173,471</td>
<td>242,416</td>
</tr>
</tbody>
</table>
1.3. Project Synopsis
1.3.1. Relevance
1.3.1.1. Benefits to Region

The purpose of this project is to establish an inclusive, high-quality one-stop online portal and offline network to meet the demands of the current and emerging needs of the shipping industry and seafarers of the APEC region. This network will focus on the lifecycle of seafarers’ career development with five specific phases (i.e., maritime education and training (MET), pre-sea service, recruitment, sea service, post-sea service and professional development). The successful implementation of this project is expected to play a pivotal role in promoting information, knowledge, and skills-transfer for seafarers, industry, academia, and related entities. Current state of affairs in various Asia-Pacific regions suggests scattered efforts to enhance the capacity of local and global shipping industries, prompting the pertinent shift of attention to a uniformed approach in attaining resource effectiveness in respect to manpower, funding and time. A cooperation for a wide range of seafarer-related issues will be actively sought which includes but are not limited to, strengthening employability through online and offline maritime education and training, attaining better welfare by providing collaborative supports, re-training for job transitions in the digital age to come, and thereby ensuring a high degree of work-life balance on-board vessels as well as ashore.

1.3.1.2. Eligibility

This project falls directly under rank 1, bullet 11, which is “connectivity, including the implementation of the APEC Connectivity Blueprint on enhancing physical, institutional and people-to-people connectivity”, which primarily benefits all seafaring economies with the following specific eligibility criteria:

• **Bullet 3: People-to-People Connectivity**

  The purpose of this project is exactly aligned with that of people-to-people connectivity, considering that this offline network and online one-stop portal will be an APEC central platform for (1) facilitating the movement of people across borders by encouraging the exchange of professional human resources for cross-border maritime education and training; (2) exchanging innovative ideas for ensuring seafarers’ high degree of work life balance including key issues such as welfare, career development and job transition; (3) strengthening seafarers’ employability for promoting skilled labor mobility

• **Bullet 5**

  This will also be a platform for seafaring issues by (1) sharing information and best practices for all levels of the maritime community; (2) cross-border capacity-building MET programs; and (3) exchanging policy dialogues for enhancing procedural cooperation and interaction, and further harmonizing seafarer-related policy and regulations across APEC
1.3.1.3. Capacity Building

As one of the most socially vulnerable groups, seafarers from 21 APEC economies are not only an indispensable source of human capital for the global maritime industry, covering at least 56 percent of the world’s seafaring population (BIMCO, 2015), but also supports their economies as a major industrial pillar. From this perspective, this project will provide a multifaceted set of economic and social benefits to major seafaring supplying economies, but also to the economies that demand a steady supply of well-qualified seafaring manpower within the APEC region.

1.3.2. Objectives

- **To establish Seafarers Excellence Network of the Asia Pacific (SENAP)** hosted by Korea Institute of Maritime and Fisheries Technology (KIMFT) in August 2018 as the organizing body of SENAP with a secretariat office

- **To hold the first international workshop for SENAP** in August 2018 to create a future action plan on how to develop, maintain and manage this network in a highly systematic and organized manner along with the timelines of key activities by best utilizing funding, manpower, and resources to be mutually shared and contributed by APEC economies

- **To launch an inclusive and comprehensive one-stop portal** projected for February 2019, where a wide range of seafarers’ solutions such as maritime education and training, welfare and career development can be openly shared and actively discussed among seafarers, academia, industry and relevant entities within APEC economies

- **To produce a final report on SENAP Strategic Management Plan** which details: the goals and objectives of the network; a framework for prioritizing projects and programs; a regular monitoring process and measurement criteria for enhancing efficiency, effectiveness and productivity of overall procedures; and an optimal use of resources for the best operation of SENAP

1.3.3. Alignment

1.3.3.1. APEC

As illustrated earlier, this project swiftly and directly responds to the APEC Connectivity Blueprint 2015-2025, which is poised to achieve a seamless, comprehensive, and integrated Asia-Pacific by promoting physical, institutional, people-to-people connectivity. The purpose of this project is exactly aligned with those of Connectivity Blueprint. The rumination of this one-stop portal will be an APEC central platform for: (1) sharing a comprehensive set of MET infrastructural and human resources; (2) harmonizing seafarer-related regulations across APEC;
and (3) enhancing procedural cooperation and interaction at all levels of the maritime community. The 2017 Leaders’ Declaration (Annex B: the APEC Framework on Human Resources Development in the Digital Age) has emphasized the importance of this future-oriented cooperative project within a specific industry (the maritime sector) which directly addresses existing and evolving digital technology, seafarer policy implications, skills education and training, and social inclusion. In terms of education and training issues, this project directly supports the statement produced at the Education Ministerial Meeting (2016), and responds to the Incheon Declaration, “Education 2030: Towards Inclusive and Equitable Quality Education and Lifelong Learning for All (2015)”. Given these goals, seafarers of all ages are expected to have a strong baseline of lifelong learning (online and offline) to develop their skills and competencies.

1.3.3.2. Forum
Under the work plan of the TPTWG (MEG initiative, 20147), this project promotes seafarer career opportunities and better quality of life on-board and ashore. Through the self-funding seminar on Enhancing the Global Capacity of Seafarers in the APEC region, which was fully funded by Korea, the first APEC joint action was successfully made with the following plans: Organization of a formal, regularly-scheduled APEC workshop for ongoing and in-depth dialogue related to seafarer global capacity-building issues; Establishment of “Asia-Pacific Maritime Education and Training (MET) Network” in order to share and best utilize high-quality training infrastructure (e.g. training ships, safety training facilities, and up-to-date simulators), well-qualified and internationally recognized human resources (e.g. administrators, course designers and trainers), and capacity-building cross-border programs. With the results of the 2017 seminar, this project is also included in the 2018 work plan of the TPTWG (MEG initiative) with the title of Establishment of APEC Maritime Education and Training Network, seeking close cooperation among both APEC seafaring economies and the economies benefitting from the seafaring manpower.

1.3.3.3. APEC Member Economies
As mentioned earlier, one of the main aims of SENAP is to enable APEC economies to have the benefits of sharing maritime education and training resources ranging from infrastructures to human recourses through a variety of capacity building cross-border programs online and offline. The programs to be prioritized in the near future are largely focused on enhancing seafarers’ soft skills and global capabilities according to the discussions having been made from the on-going APEC project (Enhancing the Global Capacity of Seafarers in the APEC region/N.TPT 02 2017S) started in 2017, for example: cross-cultural awareness; English communication capabilities (both for native and non-native speakers), a strong sense of ‘just culture’ including the ability to demonstrate leadership, mutual trust, determination and a positive attitude to secure maritime safety and manage multicultural crew comprehensively and harmoniously.
1.3.4. Methodology

**Workplan**: Project timelines, dates of key activities and deliverable outputs

<table>
<thead>
<tr>
<th>Stage No.</th>
<th>Timeline</th>
<th>Key Activities</th>
<th>Outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>August 2018</td>
<td>Hold a technical workshop in the Republic of Korea to organize the network, known as SENAP, and to develop its website that serves as this single information portal</td>
<td>Formulated strategy, objectives, and milestones.</td>
</tr>
<tr>
<td>2</td>
<td>September 2018</td>
<td>Design the structure of SENAP content and organize sub-committees, with close cooperation among APEC economies.</td>
<td>Organized portal content and a list of specialists identified from each economy</td>
</tr>
<tr>
<td>3</td>
<td>October 2018</td>
<td>Procure an IT service provider to develop the SENAP.</td>
<td>Draft website for the usability test of each economies.</td>
</tr>
<tr>
<td>4</td>
<td>December 2018</td>
<td>Conduct a survey of user feedback and further requirements.</td>
<td>A list of amendments for fine-tuning.</td>
</tr>
<tr>
<td>5</td>
<td>March 2019</td>
<td>Launch the SENAP and its portal service to APEC economies.</td>
<td>Establishment of SENAP and its one-stop portal service for seafarers and industry.</td>
</tr>
</tbody>
</table>

1.3.5. Beneficiaries

All parties engaged in the seafarer-related maritime industry within the APEC region will benefit.

1.3.6. Evaluation

Success will be measured through building strong regional ties through the establishment of the Seafarer Excellence Network of the Asia Pacific, through evaluation of user feedback. Another measure of success will be a specialised service for seafarer rights, especially for women seafarers, covering the salient issues related to labour, rest, and physical and mental care onboard vessels and ashore.

1.3.7. Linkages

As the only ongoing APEC project for seafarer human resources, this project will promote the active participation of relevant APEC and non-APEC entities, such as the International Maritime Organization (IMO) of the United Nations, the Association of Southeast Asian
Nations (ASEAN), and the International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA). In addition, stakeholders from APEC governments, industrial societies, and academia will be involved. Lastly, cross-fora activities with the APEC Human Resource Development Working Group will be involved.

CHAPTER 2

Opening Ceremony of Seafarer Excellence Network of the Asia Pacific

1. Overview

1.1 Introduction

To successfully attain the goals of SENAP, the SENAP secretariat office, as a center of this cooperative network has been established. In order to congratulate the opening of the office, opening ceremony of Seafarer Excellence Network of the Asia Pacific was held on 21 August 2018 at Korea Institute of Maritime and Fisheries Technology, Republic of Korea. The office is expected to assume the leading role in the management and overall operations of the activities which are but not limited to:

• Maintenance and/or dissemination of any SENAP outputs such as reports, manuals, databases or resources;
• The organization of follow-up workshops and meetings;
• Transfer of knowledge and best practices both offline and online; and
• Use of results or outcomes in future projects from APEC TPTWG, HRDWG and OFWG or non-APEC for a.

By actively gathering opinions from participating economies. This will provide great benefit to all stakeholders involved in international maritime industries, specifically in the APEC regions. The direct beneficiaries will be:

• Seafarers
• Maritime education and training (MET) institutions
• Shipping industry
• Governments from APEC economies
1.2 Congratulatory Remarks

1.2.1 Republic of Korea (Ms Jinhee Seo)

Honorable Guests, Distinguished Delegates, Colleagues, Ladies and Gentlemen,

It is a great honor to be here on behalf of the Ministry of Oceans and Fisheries, for the opening of the Seafarers Excellence Network of the Asia Pacific, SENAP.

I would like to cordially welcome and thank all of you, for your strong dedication and commitment to realizing this meaningful and historical event within APEC. Through a series of previous discussions, we have reached a strong consensus that SENAP will be an inclusive, quality one-stop online and offline network. SENAP will meet the current and emerging needs of the shipping industry and seafarers of the APEC region by focusing on the life cycle of seafarers’ career development, ranging from maritime education and training (MET), welfare, recruitment to job transition.

Operating under the goals of APEC Connectivity Blueprint 2015-2025, SENAP will play a pivotal role in sharing information, knowledge, and skills for seafarers, industry, academia, and related entities in the maritime industry. Especially, we will pay attention to promoting the movement of people across borders, by encouraging the exchange of professional experts, through cross-border capacity building programs. This will give us valuable opportunities to exchange innovative ideas and understand a wider spectrum of seafarer-related issues. Ultimately, we believe that SENAP will significantly contribute to improving seafarers’ employability.

Last but not least, SENAP will be an indispensable ground for APEC maritime policy makers, who will have policy dialogues that will enhance cooperation and interaction. This will harmonize seafarer-related policies and regulations across APEC. By successfully running SENAP, we hope to foster new partnerships and build new synergies for action. For this, we look forward to working together with all of you. Let us collectively find our common ground and remain steadfast in our principles; gather our strengths and build up on our strengths. Furthermore, we sincerely hope our future discussions will generate highly fruitful and far-reaching results, which will help us draw a blueprint for establishing a cooperative platform for our seafarers in a more attainable and sustainable manner.

Also, we hope to explore ways to build a robust maritime industry, and an associated workforce in the APEC region. We hope to walk this journey together, with your strong commitment, passion and dedication. To this end, the Ministry of Oceans and Fisheries will provide all possible support. Congratulations on all of your great achievements. This was only possible through your strong cooperation.

I wish nothing but continued success of SENAP. Thank you.
Dear Ms Seo, Jin-Hee, Dear President Seo, Byoung-Gyu, Dear Mr Tony Padilla, Dear Mr Seongkyun Cho, Ladies and Gentlemen,

Good Morning.

I am delighted to attend the 1st APEC workshop on the Seafarers Excellence Network of Asia Pacific and the Opening Ceremony of SENAP Secretariat Office and meet both old and new friends in Busan. On behalf of the Chinese delegation, I wish to offer my congratulations on the opening of SENAP and the establishment of the SENAP Secretariat Office. I would also like to extend my appreciation for all the effort and planning that KIMFT has put into organizing and arranging for this meeting.

The APEC region is one of the world’s economic centers and the world’s economic growth and is also a major supplier of seafarers to the world. The seafarers’ capabilities as key maritime professionals are directly linked to the sustainable future growth of the international maritime industry. The promotion of APEC seafarers’ qualifications and capabilities are of great significance to improve the international competitiveness of APEC seafarers, and to promote the sustainable development of our maritime industry.

In recent years, mutual cooperative activities within APEC economies have been carried out to improve the competitiveness of seafarers. The 2018 Strategy Planning Meeting for APEC Maritime Capacity Building, held in February in Busan, generated SENAP declaration which demonstrates the strong dedication and future commitment for nurturing a highly educated, well-qualified, and efficient maritime workforce. This SENAP workshop seeks to establish the Strategic establishment of Strategic Management Plan of SENAP by creating a blueprint with detailed strategies and action plans of the SENAP and will unquestionably provide a new opportunity for the cooperation of MET within APEC region. With the platform of SENAP, China is ready to work with all APEC economies to continuously upgrade the cooperation level of maritime education and training within APEC through the implementation of action plans. I am looking forward to having in-depth exchanges and discussions with all experts at the following meetings, exploring new opportunities and potentials for cooperation and deepening and expanding cooperation areas. In conclusion, I wish for the complete success of the conference and the prosperity and good health of all delegates. Thank you.
1.3 Program Table

<table>
<thead>
<tr>
<th>Opening Ceremony for SENAP Office</th>
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<tbody>
<tr>
<td>11:00-11:30 / SENAP Office, KIMFT</td>
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<tr>
<td>• Congratulatory Remarks</td>
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<tr>
<td>Ms Jin-Hee, Seo</td>
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<tr>
<td>Director, Seafarer Policy Division</td>
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<tr>
<td>Ministry of Oceans and Fisheries, Republic of Korea</td>
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<tr>
<td>• Congratulatory Remarks</td>
</tr>
<tr>
<td>Mr Yu Hong Jiang</td>
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<tr>
<td>Director, Seafarer Department, Maritime Safety Administration</td>
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<tr>
<td>China</td>
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<tr>
<td>• Ribbon-cutting Ceremony</td>
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<tr>
<td>• Group Photo</td>
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<tr>
<td>• Visit to SENAP Secretariat Office</td>
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<table>
<thead>
<tr>
<th>Technical Tour</th>
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<tr>
<td>11:30-12:30 / Korea Institute of Maritime and Fisheries Technology</td>
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<tr>
<td>• Technical Tour of KIMFT</td>
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</tbody>
</table>

2. Output

2.1 Contribution of RoK and Mutual Operation in the Future

2.1.1 Funding for Its Establishment

The funding for its initial operation was largely sponsored by Korea Institute of Maritime and Fisheries Technology under the Ministry of Oceans and Fisheries including office, workforce, operational costs and the development of major capacity building courses that are listed as the highest priority within APEC. Specifically, the detailed plan for the maintenance of the website will be clearly established with a close mutual discussion among SENAP member economies throughout this project period. With careful consideration, the most critical concept of the SENAP is to create a mutually shared and operated platform on the basis of each APEC economy’s contribution for the interest and well-being of our seafarers. KIMFT has allocated a certain amount of internal budget for this purpose ($265,317 per year) with the following itemized details without specifying a date range:

• Direct Labor (USD 175,680): Secretary-General (President of KIMFT / ex officio position), PhD and/or professor level expert, professional English native-speaking copy editor, instructor for MET, and administrative staff

• Secretariat office with online portal maintenance (USD 17,637): office rental, utility, web maintenance, web hosting
• Travelling (USD 36,000): airfare and per diem
• Others (USD 6,000): communication etc.

There is a valid significance for the discussions on this matter that will be addressed and presided upon with a series of in-depth online and offline meetings, and then appended with detailed management plans for its sustainable operation and maintenance at the end of the project, which is expected to be completed in February 2019 and submitted to APEC Secretariat as a final report. Additionally, Korea Institute of Maritime and Fisheries Technology, proposes to take a leading role and secure a strong commitment to SENAP in terms of manpower, Secretariat Office and maintenance of website to the point where operating a completely sustainable and self-sufficient system becomes fundamentally feasible with the generous support of and contributions by all other APEC economies. This decision has been undertaken on the rational judgment that the independent operation of SENAP would take a certain period of time, and therefore playing an incubating role that guides and supports the entire development process is the central axis of the project in the successful commencement and implementation of this project.

2.1.2 Support of Republic of Korea

The expenditure of the allocated funding designated above will be made with the commencement of this project (August 2018). While maintaining this volume of on-going contribution into the successful operation of SENAP, an active discussion on its sustainable, effective and efficient management will be made among APEC economies, and detailed action plans to expedite its operational independence will be sought, and furthermore implemented.

2.1.3 Participation from SENAP Member Economies

SENAP member economies will also take a strong leadership in developing the fields of their expertise. Some examples can be taken from Malaysia, which has a possibility of becoming a center of excellence for seafarers’ career development based on their past experiences outlined in Malaysia Strategic Master Plan. Another example can be modeled after Korea’s maritime education and training, more specifically, with onboard and safety training in a series of newly built training ships and relevant training infrastructures. Additionally, we may draw examples from the Philippines with their knowledge and expertise in improving seafarers’ welfare. Best practices and policies of each economy can be actively shared and be actively shared and promoted through the uniformed platform, while practical actions can be taken from the economy of specialization.
2.2 SENAP Logo

The SENAP logo symbolizes three major key elements (APEC, Seafarer, Network) of this network:
3. Photo
CHAPTER 3
APEC Workshop on Seafarers Excellence Network of Asia Pacific

1. Introduction

The first three day APEC Workshop on Seafarers Excellence Network of Asia Pacific was held for the establishment of Strategic Management Plan of SENAP by forming 5 specialized task force teams for creating a blueprint with detailed strategies and action plans of the SENAP, and for developing the contents of capacity building programs and knowledge-transfer with the following details.

- Date: 21-23 August 2018
- Venue: Korea Institute of Maritime and Fisheries Technology
- Participants/Beneficiaries: Seafarers, maritime education and training (MET) institutions, shipping industry, governments from APEC economies

2. Official Invitation Letter

It is our greatest pleasure to invite you to the 1st APEC Workshop on Seafarer Excellence Network of Asia Pacific (SENAP), to be held at the Korea Institute of Maritime and Fisheries Technology, Busan, Republic of Korea, on 21-23 August 2018.

This is the very first stage of commencing 2018 APEC project on the Establishment of the SENAP, which has been highly supported by 11 economies (i.e. China; Indonesia; Malaysia; Papua New Guinea; Peru; the Philippines; Chinese Taipei; Thailand; the United States; Viet Nam). Our first mutual discussion started from the 2017 APEC international seminar on Enhancing the Global Capacity of Seafarers in the APEC Region (N. TPT 02 2017S) and has since developed into a more practical and in-depth discussion, building on this issue through 2018 Strategy Planning Meeting for APEC Maritime Capacity Building. These ongoing cooperative activities within APEC have become a significant milestone by generating SENAP declaration which demonstrates our strong dedication and future commitment for nurturing a highly educated, well-qualified, and efficient maritime workforce.

In order to accomplish our goal in a sustainable manner in a mutually agreed and harmonized fashion, the new 2018 APEC project on Establishment of the SENAP will be launched, starting with the 1st APEC workshop on Seafarers Excellence Network of Asia Pacific and Opening Ceremony of SENAP Secretariat Office with the following strategic focus:

- To create a SENAP Strategic Management Plan which details: the goals and objectives of the network; a systematic and organized maintenance and management plan; projects and program; the timelines of key activities; an optimal use of resources for the best
operation of SENAP in terms of funding, manpower, and resource; a regular monitoring process and measurement criteria for enhancing efficiency, effectiveness and productivity of overall procedures; and

- To establish an inclusive and comprehensive one-stop portal, where a wide range of seafarers’ solutions such as maritime education and training, welfare and career development can be openly shared and actively discussed among seafarers, academia, industry and relevant entities within APEC economies

The participants in the seminar will include the representatives of the governments and national maritime education and training institutions of the APEC economies. Please be kindly informed that airfare and hotel accommodation fee will cover one delegate with app. USD 100 per diem detailed below;

One representative from seafarer-related division or international maritime affairs (ministry side), who may officially represent their respective economy in APEC

We would like you to share your perspectives and suggest systematic strategies for SENAP. We believe this workshop will be a great opportunity for all of us to share our perspectives and ideas on the mutual development and active operation of SENAP. We are very much excited to cooperate with you as a standing member of this exciting initiative for the betterment of APEC seafarers and the maritime industry at-large.

If you have any inquiries, please do not hesitate to contact us anytime. We look forward to hearing from you.

Sincerely yours,

Byoung-Gyu, Seo  
President, Korea Institute of Maritime and Fisheries Technology
3. Congratulatory Remarks

3.1. Republic of Korea (Mr Gi-Du Eom)

Honorable Guests, Distinguished Delegates, Colleagues, Ladies and Gentlemen,

My name is Mr Gi-Du, Eom, Director General of the Shipping and Logistics Bureau, the Ministry of Oceans and Fisheries, Republic of Korea. I would like to take this opportunity to extend a very warm welcome to all delegates gathered here to share and hear their valuable views and thoughts for this meaningful 1st APEC workshop on Seafarers Excellence Network of the Asia Pacific. I would particularly like to express our deepest and most sincere appreciation to the co-sponsoring economies, China; Indonesia; Malaysia; Papua New Guinea; Peru; the Philippines; Chinese Taipei; Thailand; the United States; and Viet Nam, who have provided tremendous efforts and value throughout this project. These supporting economies have been instrumental in providing concrete objectives of moving this project in the right direction under the APEC umbrella.

Our special thanks also goes to the Lead Shepherd of APEC Transportation Working Group, Mr Seong-Kyun Cho, and Program Director, Mr Kyoo-Ho Lee, who have given us great value by providing detailed and comprehensive guidance from the undertaking of this project to the first actual operation of the event where we currently are today. Through the previous discussions transpired from the 2017 APEC international seminar on Enhancing the Global Capacity of Seafarers in the APEC Region, we have yielded very significant results, providing all of us with a chance of recognizing the importance and critical role seafarers play in the international shipping industry. These ongoing cooperative activities among us have become a significant milestone by generating the declaration for Seafarers Excellence Network of the Asia Pacific which demonstrates our strong dedication and future commitment for nurturing a highly educated, well-qualified, and efficient maritime workforce.

We have reached the consensus that seafarers’ capabilities as key maritime professionals are directly linked to the sustainable future growth of the international maritime industry, and its importance will be more accentuated in the years to come. A concern in regard to the emergence of autonomous vessels have also been raised, with a view to urge a mutual cooperation on establishing a support system for our seafarers to proactively react to the rapid changes and further take this opportunity as another step of developing their career paths in the digital age with an in-depth knowledge and experiences that they have accumulated at sea.

We would like to once again revisit and directly face any seafarer related issues at hand, for mutual cooperation with APEC economies for not only prosperity but also for sustainable growth of our maritime industry. We must not sit idly and under evaluate any issues nor pass these issues off as an isolated incident. These efforts will ultimately contribute to the promotion of our APEC seafarers’ successful entry into the global shipping market with better qualifications and more enhanced capabilities.
With respect to the issues mentioned earlier, we support a wide range of activities that strengthen APEC seafarers’ global capabilities and their active involvement into the international maritime world. We, the Republic of Korea, strongly support to address these issues going forward among active cooperation with every APEC economy. Through the SENAP, we hope to continue close discussions with all APEC economies, specifically in the field of maritime education and training.

The Republic of Korea also hopes that the commencement of SENAP in APEC will be a stepping-stone for us to develop our ideas in a more feasible and tangible manner, while working together to create future pathways in developing solid grounds for mutual cooperation within APEC.

Thank you

3.2. The United States (Mr Tony Padilla)

I am so proud of the entire SENAP team, the delegates, and support staff for moving forward as warriors always do to serve the global seafarer community. Make no mistake, what you are doing for the “unsung heroes of the sea” is not only a noble effort, but it shows that international cooperation works! So, let's not lose any momentum. What we should do what we must do for seafarers with little to no political voice and little financial clout, is continuing to build the SENAP platform as a practical, easy to use, multi-stakeholder center of excellence for all issues related to seafarers. Let's not think of this workshop as a random or routine meeting; think of it as being part of an unprecedented and effective movement to protect the dignity of seafarers, while also benefiting the maritime industry as a whole. Today, we must tackle global inequities wherever they lie. Thus, how the SENAP evolves is incredibly important.

I applaud President Seo and all of you as SENAP leaders for your passion and unrelenting focus. Thank you and I look forward to seeing you at the next meeting.

Sincerely yours,

Tony Padilla
4. Program Table

1st Day (21 August 2018)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>10:00-11:00</td>
<td>Opening ceremony <strong>Grand hall, Korea Institute of Maritime and Fisheries Technology</strong></td>
</tr>
</tbody>
</table>
|               |  • Welcoming remarks  
|               |   Mr Byoung-Gyu Seo  
|               |   President, Korea Institute of Maritime and Fisheries Technology  
|               |   Republic of Korea  
|               |  • Congratulatory remarks  
|               |   Mr Gi-Du Eom  
|               |   Director General, Shipping and Logistics Bureau  
|               |   Ministry of Oceans and Fisheries, Republic of Korea  
|               |  • Congratulatory remarks  
|               |   Mr Jong-Gyu Park  
|               |   Director, Maritime and Fisheries Division, Busan Metropolitan City  
|               |   Republic of Korea  
|               |  • Keynote speech  
|               |   Mr Seong-Kyun Cho  
|               |   Lead Shepherd, APEC Transportation Working Group  
|               |   Director, International Cooperation and Trade Division,  
|               |   Ministry of Land, Infrastructure and Transport, Republic of Korea  
|               |  • Keynote speech (Video Message)  
|               |   Mr Tony Padilla  
|               |   Chair, Seafarers Excellence Network of the Asia Pacific (SENAP)  
|               |   Vice Chair, Maritime Expert Group, APEC TPTWG  
|               |   Senior Advisor, International Affairs Maritime Administration  
|               |   U.S. Department of Transportation, USA  
|               |  • Group photo  

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<tr>
<td>11:00-11:30</td>
<td>Opening Ceremony for SENAP office <strong>SENAP office, Korea Institute of Maritime and Fisheries Technology</strong></td>
</tr>
</tbody>
</table>
|               |  • Congratulatory remarks  
|               |   Ms Jin-Hee Seo  
|               |   Director, Seafarers Policy Division  
|               |   Ministry of Oceans and Fisheries, Republic of Korea  
|               |  • Congratulatory remarks  
|               |   Mr Yu Hong Jiang  
|               |   Director, Seafarer Department, MSA Maritime Safety Administration  
|               |   China  
|               |  • Ribbon-cutting ceremony  
|               |  • Group photo  

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**Technical Tour**

11:30-12:30 / Korea Institute of Maritime and Fisheries Technology

- Technical Tour of KIMFT

**Lunch**

12:30-13:30 / Mokjangwon, Youngdo, Busan (Korean Restaurant)

**Session 1: SENAP Terms of Reference**

13:30-15:00 / Grand hall, Korea Institute of Maritime and Fisheries Technology

**Chair - Ms Jin-Hee Seo**
Director, Seafarers Policy Division  
Ministry of Oceans and Fisheries  
Republic of Korea

15:00-15:30

- Coffee break

**Session 2: Organization of SENAP**

15:30-17:30 / Grand hall, Korea Institute of Maritime and Fisheries Technology

**Chair - Ms Zalikha Moslim**
Principal Assistant Secretary,  
Maritime Division, Ministry of Transport  
Malaysia

**Networking Dinner**

18:00-21:00 / Chungsu-Jang, Busan (Korean traditional restaurant)
2nd Day (22 August 2018)

### Session 3: Technical Session – 1 – Maritime Education and Training

**09:00-10:30 / Grand hall, Korea Institute of Maritime and Fisheries Technology**

<table>
<thead>
<tr>
<th>Chair – Dr. Sang-Yeop Jeon</th>
<th>Vice Chair – Mr. Anugrah Nur Prasetyo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head of Education Headquarters</td>
<td>Principal</td>
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</table>

- **Sharing Best Practice**
  - Cadets Exchange between China and Chinese Taipei / Capt. Guo, Jiunn-Liang (Chinese Taipei)
  - SENAP Onboard Training / Dr. Min Jung (Republic of Korea)
  - Design of IMO STCW Model Courses: the Philippine MET Had Adopted Outcomes-based Education Approach in its Design and Delivery / Ms. Presca Lee B. Lugo and Ms. Josephine Olaso Castillo (The Philippine)
  - Blended Learning: A Novel Experience for Seafarers / Ms. Sherrilee Ramsay (Australia)
  - Establishment and Provision of Diverse Train the Trainer MET Courses to Improve Instructors’ Capacity and Designate Them as APEC-accredited Instructors: Structured Trainer of Trainers and Assessors and Development of Trainer and Assessor Competences / Ms. Presca Lee B. Lugo and Ms. Josephine Olaso Castillo (The Philippine)
  - Integrated SENAP Management System of Maritime Education, Training Certification, and Accreditation / Mr. Mohd Fazarul Nizam (Malaysia) and Mr. Hee-Su Jeong (Republic of Korea)
  - Co-developed Major MET Programs within APEC to Enhance Seafarers’ Capacity: Recognition of In-service Experience of Seafarers as a Method of Assessment of Competency / Ms. Presca Lee B. Lugo and Ms. Josephine Olaso Castillo (The Philippine)

- **SENAP Future Strategy: Maritime Education and Training**

### Session 4: Technical Session 2 – Seafarers’ Welfare at Sea

**10:45-12:15 / Grand hall, Korea Institute of Maritime and Fisheries Technology**

<table>
<thead>
<tr>
<th>Chair - Dr. Md Redzuan bin Zoofakar</th>
<th>Vice-Chair – Prof. Taih-Cherng. Lim</th>
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<tbody>
<tr>
<td>Principal Researcher</td>
<td>Associate Professor</td>
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<tr>
<td>Marine Engineering Technology</td>
<td>Division of Internship and Career</td>
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<tr>
<td>University Kuala Lumpur</td>
<td>National Taiwan Ocean University (NTOU)</td>
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</tbody>
</table>

- **Sharing Best Practice**
  - SENAP Telemedicine Health-care Service for APEC Seafarers / Dr. Byung-Kwan Choi (Republic of Korea)
  - Women Seafarers in Chinese Taipei / Capt. Guo, Jiunn-Liang (Chinese Taipei)
  - How to Increase Seafarers Mobility via the Provision of an Independent Travelling Service Network under SENAP / Prof. Taih-Cherng, Lim (Chinese Taipei)

- **SENAP Future Strategy: Seafarers’ Welfare at Sea**

### Lunch

**12:15-14:00 / Mokjangwon, Youngdo, Busan (Korean Restaurant)**
Session 5: Technical Session 3 - Recruitment, Career Development and Job Transition
14:00-17:00 / Grand hall, Korea Institute of Maritime and Fisheries Technology

Chair - Ms. Josephine Olaso Castillo
Supervising Maritime Industry Development Specialist (SMIDS)
Seafarers Certification and Documentation Division, Manpower Development Service, Maritime Industry Authority, The Philippine

Vice-Chair - Mr. Parinya Lakong
Transport Technical Officer, Marine Department, Seafarers Standard Division Thailand

- Sharing Best Practice
  - Methods of Encouraging Candidates in Joining Seafarer Careers During Shortage and Lack of Seafarers Sources, Particularly in Developing Countries / Mr. Luu Viet Hung (Vietnam)
  - Alternative Pathways for Deck and Engineer Officers / Ms. Sherri Ramsay (Australia)
  - Enhancement of Seafarers Employability through Capacity Building / Capt. Mohd Fahmi Niza Mohd Tarmizi (Malaysia)

- SENAP Future Strategy: Recruitment, Career Development and Job Transition

Farewell Dinner

18:00-21:00 / Chosun Westin Hotel, Haeundae, Busan

3rd Day (23 August 2018)

Session 6: APEC Project Final Outcomes: SENAP Strategic Management Plan
09:00-10:30

Chair – Ms. Presca Lee B. Lugo
MET Standards Supervisor (METSS)
Examination and Assessment Division
STCW Office Organization
Maritime Industry Authority, The Philippines

Vice Chair – Mr. Shailesh Kumar Sinha
Senior Technical Advisor
Technical, Environment and Navigation (TEN)
Maritime New Zealand
New Zealand

10:30-11:00

- Coffee break

Session 7: Review of the Workshop Final Report
11:00-13:00

Chair – Mr. Mohan Anantharaman
Senior Lecturer
University of Tasmania
Australia

Vice Chair – Mr. Carlos Molina Barrutia
Specialist 1st Class, General Management
National Port Authority
Peru

Lunch

13:00-14:00 / Mokjangwon, Youngdo, Busan (Korean Restaurant)

Technical Tour

14:00-17:00 / TS Hanbando, KIMFT Training Ship

- Technical Tour of KIMFT Training Ship
5. Discussion Output

5.1. Session 1: Terms of Reference

5.1.1. The Past, Present, and the Future of the SENAP (Republic of Korea)
Republic of Korea has shared the past, present, and the future of the SENAP that member economies design and implement innovative strategies and practical activities for seafarers together in a diverse spectrum through a closely interconnected mutual cooperation within APEC.

1) 2017 AEPC Seminar on Enhancing the Global Capacity of Seafarers in the APEC Region
   - Venue: Korea Institute of Maritime and Fisheries Technology
   - Date: 19-20 October 2017
   - Led by: Republic of Korea
   - Co-sponsored by Chinese Taipei; Indonesia; Malaysia; Thailand; the Philippines; and the United States
   - Key Aims: identify the key competencies of seafarers in terms of global capacity-building as a major source of human capital for the shipping industry; explore the possibility of an improved training and education system; discuss the provision of systematic and continuous development opportunities for seafarers as part of a lifelong learning system; and suggest future actions for the APEC economies
   - Results: a strong need for establishment of a platform for the communication and cooperation of APEC economies on seafarers’ affairs, a ground for strong connections, cooperation and collaboration within APEC economies.

2) 2018 Strategy Planning Meeting on APEC Maritime Capacity Building
   - Venue: Korea Institute of Maritime and Fisheries Technology
   - Date: 27 February – 1 March 2018
   - Sponsored by: Republic of Korea
   - Participated by: China; Indonesia; Malaysia; Republic of Korea; Chinese Taipei; Thailand; the Philippines; the United States; and Viet Nam
   - Key Aims: establish an Asia-Pacific seafarer network for enhancing seafarers’ global capabilities, promoting their successful entry into the global shipping industry, and developing career path into a wider maritime sector
   - Results: the establishment of Seafarer Excellence Network of Asia Pacific (SENAP) to conduct key aims has been agreed upon unanimously and Busan declaration has been issued, technical working groups has been formed specifically focusing on ‘on- and offline maritime education and training’, ‘seafarers’ better welfare’ and ‘career development and job transition’.

3) 2018 Embellishment of the Seafarer Excellence Network of the Asia Pacific
   - Venue: Korea Institute of Maritime and Fisheries Technology
   - Workshop Date: 21-23 August 2018
   - Project Period: August 2018 – March 2019
   - Led by: Republic of Korea
- Co-sponsored and/or Participated by: Australia; China; Indonesia; Malaysia; New Zealand; Papua New Guinea; Peru; the Philippines; Chinese Taipei; Thailand; the United States; and Viet Nam.

- The Aims of the 2018 APEC Project are: to hold the first international workshop for SENAP in August 2018 to create a future action plan on how to develop, maintain and manage this network in a highly systematic and organized manner along with the timelines of key activities by best utilizing funding, manpower, and resources to be mutually shared and contributed by APEC economies; to launch an inclusive and comprehensive one-stop portal projected for February 2019, where a wide range of seafarers’ solutions such as maritime education and training, welfare and career development can be openly shared and actively discussed among seafarers, academia, industry and relevant entities within APEC economies.

- Key Aims of the Workshop: the establishment of Strategic Management Plan of SENAP by forming three specialized task force teams (i.e. ‘on- and offline maritime education and training’, ‘seafarers’ better welfare’ and ‘seafarers’ recruitment, career development and job transition’) for creating a blueprint with detailed strategies and action plans of the SENAP, and for developing the contents of capacity building programs and knowledge transfer; ribbon-cutting ceremony for SENAP secretariat office.

1.5.5.2 Mutual Cooperation within APEC through SENAP (Peru)

1) Main Points
- When seafarers choose to keep their career onboard, the acquisition of newly updated knowledge and skills such as cutting-edge technologies in the digital age, such as new equipment, process innovations, and quality system management can be an issue when performing the job.
- In addition, in order to seek on-shore positions after leaving the ship, relevant qualifications with certificates required should be successfully implemented to be a professional member of onshore work.
- Some of the shipping companies address this issue but gaps between what is actually required by the human resource industry and what is available at sea exist.
- In addition, in order to implement this assistance in an efficient working manner, renovated maritime education and training require relevant infrastructures, simulators, and training material and learning-aid system on vessels at sea.
- In order to resolve the issues, a mutual cooperation on education and training through relevant information sharing and developing required MET system to assist with our seafarers is required.

2) Proposal under APEC Frame
- The information sharing system to recognize our own problems by sharing and comparing the situations of other economies should be established.
- For more precisely identify gaps in our seafarers’ issues stated below, a friendly
network to deal with these issues should be activated; a wide range of practical MET programs; the information on the varied ways of MET (e.g. boarding school, non-resident school or paramilitary system); required job competencies based on seafarers’ actual performance.

- In addition, for the job transition of seafarers from onboard to onshore, their possible career options should be precisely identified and based on the results, relevant education and training programs should be provided.

5.2. Session 2: Organization of SENAP

5.2.1. SENAP under APEC: How They Can Materialize (Republic of Korea)

1) Main Points
   - Republic of Korea had a presentation on exploring the way on how SENAP can be materialized
   - For a sustainable and qualitative future development within APEC dealing with maritime human resource issues, the suggestion on establishing a strategic plan that SENAP should go further has been made: to operate SENAP system on a more solid financial ground, the diversification of funding sources, such as voluntary contributions from government, memberships, donations, and other contributions should be considered; follow-up projects are encouraged for submission through mutual cooperation of and in the name of SENAP.

5.3. Session 3: Maritime Education and Training

5.3.1. Cadets Exchange between China and Chinese Taipei (Chinese Taipei)

1) Main Points
   - Chinese Taipei shared active cooperation in the field of on-board training, or Cadet Exchange Program, with China for the enhancement of global capabilities by providing their future maritime leaders with invaluable opportunities of exchanging culture and forming close friendship between two economies.
   - Four training ships have been utilized for this purpose, with the active participation of the following universities in each economy: National Taiwan Ocean University, Dalian Maritime University, Shanghai Maritime University and Wuhan University of Technology.
   - This cadet exchange training program has successfully demonstrated that the level of participants’ cultural awareness onboard has been much raised by breaking down possible cultural barriers and maintain harmonious intercultural onboard environment.

2) Proposal under APEC Frame
   - Form a multicultural onboard environment for the enhancement of mutual understanding among different cultures
   - Create an English learning environment for more effective and efficient
communication at sea not only for non-native but for native English speakers
- Promote cadet exchange program by welcoming cadets from other APEC economies

3) Chinese Taipei can Provide
- A total of 80 cadets can be accommodated by training vessel, YU-YING No. 2 owned by National Taiwan Ocean University in Chinese Taipei

5.3.2. SENAP Onboard Training (Republic of Korea)

1) Main Points
- Under the APEC Connectivity Blueprint 2015-2025, Republic of Korea suggests the sharing and co-utilization of training ship including personnel and resources for education and training: a training ship; well-qualified instructor; excellent curriculum to enhance maritime competency of cadets, communication ability in a multicultural working environment, as well as global leadership; and experts of shipping companies to best accommodate the current needs of the shipping industry

2) Proposal under APEC Frame
- Take a closer step to develop APEC Cadet Exchange Training Program in the form of projects under new concept notes
- Share information on every APEC economies’ high-quality onboard training infrastructure, personnel and resources on SENAP online portal

3) Republic of Korea can Provide
- Three training ships owned by Korea Institute of Maritime and Fisheries Technology, under the Ministry of Oceans and Fisheries can be co-utilized with APEC economies for this purpose.

5.3.3. Design of IMO STCW Model Courses: The Philippines MET Had Adopted Outcomes-based Education Approach in its Design and Delivery Training (Philippines)

1) Main Points
- The Philippines has shared their experience on the adoption of Outcomes-based Education Approach in its Design and Delivery of IMO STCW model courses.
- A strong suggestion has been made that beyond minimum competencies required by STCW, a higher level of standardized MET outcome, should be drawn through SENAP, and these mutual efforts will enable competence of APEC seafarers to be balanced
- In this perspective, the following actions need to be required: expected outcomes after the delivery of a target course should be first defined; the criteria of assessing the specified competences of trainees should be established in a way to demonstrate
their capabilities when working onboard, rather than in the classroom.

2) Proposal under APEC Frame
   - Even with the undeniable fact that every economy has their own MET system, an agreement on establishing the required APEC competences as professional and skilful seafarers, who can demonstrate a high level of practical outcomes in a mutually expected and recognizable manner, will ultimately lead to the success of the shipping industry of APEC economies at the national level and that of seafarers at an individual level.

3) The Philippines can provide
   - The Philippines is willing to make a contribution to the development of Outcomes-based Education Approach in its Design and Delivery of IMO STCW model courses

5.3.4. Blended Learning: A Novel Experience for Seafarers (Australia)

1) Main Points
   - Australia has provided an in-depth insight into blended MET model which incorporates offline, online and blended models for seafarers with specific focuses on: being able to utilize wireless technology such as smartphones; communicating with peers and teachers, anywhere, and anytime, and getting feedback at every stage; making an access to sufficient information on the course details and high quality resources; and conducting more of formative assessment rather than summative.
   - In addition, the following factors were also key considerations when designing blended learning: rules and policies; clearly-defined intended learning outcomes, or unit outline; the provision of contact details of unit coordinator or lecturer; clear assessment process and final results; and detailed criteria and rubrics.
   - It has been clearly demonstrated that this blended model has provided their seafarers a high impact learning experience.

2) Proposal under APEC Frame
   - Australia suggested that the active use of blended learning should be considered, given the facts that seafaring career can be directly linked to wider and diversified maritime career pathways, which will form stronger maritime human power of the economy in the future (e.g. maritime engineering, marine logistics management, maritime academia such as vocational training centers and universities, and government administration)
   - The active utilization of blended learning, or pre-sea training through mixture of on campus and distance programs, should be considered under SENAP, which will ultimately enable our cadets to minimize their time on campus (e.g. from 3 years to 1.5 years) but to expedite them to go to sea in a cost-efficient way, as a lesson learnt from Tasmania University in Australia.
5.3.5. Establishment and Provision of Diverse Train the Trainer MET Courses to Improve Instructors’ Capacity and Designate Them as APEC-accredited Instructors: Structured Trainer of Trainers and Assessors and Development of Trainer and Assessor Education (Philippines)

1) Main Point
- The Philippines has shared their views on the development of Development of Trainer and Assessor Competences by point out that STCW does not precisely define their qualifications and requirements, just briefly stating this the simple phrase as “appropriately qualified”.
- In this perspective, a course with competence mapping in compliance with the STCW needs to be prioritized in a way to determine training outcomes and corresponding contents of the course in a concrete and tangible way.
- By doing so, co-ordination, organization and implementation of co-curriculum activities at regional and APEC levels becomes available, and the qualification criteria and necessary training for instructors and assessors can be designed.
- The well-designed training programs can be utilized in various ways such as for induction of new instructors and assessors, their professional growth, performance appraisal, and even salary guide.
- Ultimately, this will make a stronger ground for building on quality teaching, quality maritime professionals in academia, which leads to qualified and competent seafarers in global maritime industry.

2) Proposal under APEC Frame
- The development of SENAP Defined Competences for Instructors and Assessors is required for uniform training requirements, and universally acceptable certificates through common competences.
- Mutual cooperation on developing a universally accepted training record book for officers is also recommended, by converting the training record book into eTRB at the end.

5.3.6. Integrated SENAP Management System of Maritime Education, Training Certification and Accreditation (Malaysia and Republic of Korea)

1) Main Points
- To operate and manage SENAP in its full potential, Malaysia and Republic of Korea have suggested that the following three main issues need to be prioritized in further discussion: a centre of excellence, a mutually shared and operable MET platform ranging from education, training, testing, certification to accreditation; Platform, online and offline based on professional contributions and leadership from every APEC economy; a mutual operation, the Center of Excellence supported by maritime administrations committed to developing and enhancing the maritime industry seafarers’ capabilities now and in the future
2) Proposal under APEC Frame
- SENAP Quality Assurance System as the World-class MET suppliers should be established to securely maintain an absolute standard of maritime workforce in the shipping industry across the world
- The ways to build links professionally with the backing of unified maritime workforce under SENAP should be ensured by enlarging an opportunity to be put into contact with shipping company
- An effective link between industry through strong first-hand learning experiences and training should be created.
- Strong unified approach to commonly shared seafarer issues by supporting mutual collaboration among professional bodies, maritime administrations, their related agencies, and shipping companies
- Establishing a strong partnership with related organizations to add additional value to overall experience should be jointly considered.
- In order to realize this as the initial step of designing SENAP organizational frame, creating SENAP special taskforce team, or jointly connected think-tank group, to specifically deal with this issue should be formed.

5.4. Session 4: Seafarers’ Welfare at Sea
5.4.1. SENAP Telemedicine Health-care Service for APEC Seafarers (Republic of Korea)

1) Main Point
- Republic of Korea of Korea shared Telemedicine Health-care Service currently being provided as a part of national welfare for Korean seafarers, or TMAS (Maritime Telemedical Assistance Service)
- The major features of the TMAS, which enables evidence-based medicine via remote medical system are as follows: satellite-based medical device fully controlled by TMAS centres; patients medical condition checked and provided by electrocardiogram, glucose meter, urine analyser, stethoscope, tonometer equipped onboard; all information (e.g. medication, family history, surgeries, and treatment) collected in one unified system taken from medical devices onboard and in hospitals on land; management of appointments, review of biometrics, and pictures taken onboard for detecting blood protein sugar levels in urine and checking the presence of kidney stone and bacteria.

2) Proposal under APEC Frame
- The operation of SENAP Telemedicine Health-care Service for APEC seafarers, which has been proved successful with a high satisfaction rate 97.4% (411 out of 422 Korean sailors resulted in a want of TMAS system onboard.
- For SENAP Telemedicine Health-care service best operable and highly reliable in any of the APEC regions, sharing patients’ medical history, standardization of services and on-board devices should be discussed.
- Sharing Information on Telemedicine Health-care Service and further
implementing this to APEC economies in needs can be available as a part of welfare for APEC seafarers.

- Along with co-utilizing SENAP Telemedicine Health-care Service, basic training course to medical officers onboard for how to treat patients through TMAS such as managing fractures and pain, sutures on wound, and giving IV injection needs to be conducted.

- **5.4.2. Women Seafarers in Chinese Taipei (Chinese Taipei)**
  
  1) **Main Point**
  
  - Chinese Taipei shared women seafarers’ successful career development in shipping industry by introducing the history of women in Chinese Taipei in seafaring.

    Year 1993) female major in Nautical Profession  
    Year 1998) the first female deck cadet  
    Year 2011) the first female master on container ship  
    Year 2017) the first female harbour pilot

  - The statistics showing the participation of women officers in Chinese Taipei is as follows (as of June 30th, 2018):

    Deck officers (106 women, 16.72% out of their ranks)  
    Deck Cadets (31 women, 15.74% out of their ranks)  
    Overall (234 women at the ratio of 3.61%, compared to 6,480 males)  
    The overall ratio is relatively higher than the average rate of developed countries, or 1 to 2% (International Labor Organization)

  - Chinese Taipei’s systematic policy to nurture women seafarer is as follows: fair opportunities for participation in the MET based on Gender Equality Education Act (2013); the recruitment of female nautical cadets to state-owned shipping companies is required by government; active use the media to promote women seafarers; for academia by tracking and recommending the models of women seafarers; and for government by producing micro-movies or press conferences to promote the seafaring, with women seafarers as the main character. As a result, shipping companies in Chinese Taipei will gradually regard the employment of women seafarers as Corporate Social Responsibility (CSR); and a specialized education program for raising awareness on gender equality onboard ships, requiring all cadets to have proper words and deeds on board with a strong belief that these deeds will benefit later generations.

  - Promoting social media campaign across APEC to encourage active involvement of women into the shipping industry as seafarers by distributing Chinese Taipei’s exemplary policy implementation and sharing success story of woman seafarers for future generations to have a dream of going to sea.
5.4.3. How to Increase Seafarers Mobility via the Provision of an Independent Testing (Viet Nam)

1) Main Points
   - Chinese Taipei has addressed the problems of English language barriers that most of non-native APEC seafarers face in the global recruitment market, beyond the minimum standard specified in STCW
   - An adoption of the unified APEC testing system both can be conducted in English and their local languages needs to be considered, as exemplified by: Institute of Logistics and Transport certification, which offers an uniformed certification in different languages: English or Chinese language; and MCA (Maritime and Coastguard Agency, United Kingdom), which demands an oral examination to demonstrate seafaring competencies. 
   - Considering the pivotal importance of language, certification after the successful achievement of testing taken in English can be used for the purpose of endorsement and as one of the incentives for seafarers in the process of recruitment in international shipping market, and further promotion within their organizations.
   - In this perspective, APEC economies make a mutual effort to develop Independent Testing Service Network under SENAP, for example, by preparing an English written testing bank, training English Oral Examiners, and mutually recognizing capability of APEC seafarers who pass the test.

2) Proposal under APEC Frame
   - SENAP Member Economies: education, training, manning planning
   - Domestic testing bank: written test in local language, oral test with local language
   - Test results and certification: pass report, certification of competence
   - SENAP: member states together prepare on English testing bank, training of English oral examiners
   - Advantages: increase the mobility of APEC seafarers, inclusiveness
   - Results: international recognized capability of APEC seafarers, less jobless APEC seafarers

5.5. Session 5: Recruitment, Career Development and Job Transition

5.5.1. Alternative Pathways for Deck and Engineer Officers (Australia)

1) Main Points
   - As the national regulator responsible for commercial maritime safety, protection of the marine environment, and maritime and aviation search and rescue, Australian Maritime Safety Authority (AMSA) is to closely cooperate with industry stakeholders by inviting their participation into steering committee, encouraging industry consultation on crew competencies and aligning regulatory certification with training package outcomes.
   - Based on this, the training package designed is substantially beneficial in
addressing seafarers' skills shortages in the following perspectives that: providing well-articulated career pathway, opportunity to attract people into the industry and retain them by aligning Maritime Training Package with certification, and a way to broaden seafarers’ future career choices and their ability to progress.

- It is proven that positive outcomes have been drawn specifically in the following facts that: reduction of costs to individuals, training packages that align with the certificate of competency outcomes, career pathways and training progression, a platform for nationally consistent delivery and assessment of maritime training.

5.5.2. Enhancement of Seafarers Employability through Capacity Building (Malaysia)

Malaysia has given an in-depth insight MET and seafarers’ career development and job transition in a wide and comprehensive spectrum, and their implications on the future operation of SENAP.

1) What is Capacity Building?
- A combination of human resource, organizational and legal framework development on which transcends the normal silo mentality.

2) Key Considerations in Capacity Building
- A national agenda involving relevant stakeholders need to be set on national level.
- Factors of employability to be ascertained as it is unique to a nation.
- METs to anticipate labour market as it plays a crucial part of employability.
- More active involvement of ship-owner in taking up cadets (e.g. incentives, legislation, industry policy)
- In future, more simulation and computer-based training will be introduced to familiarized workforce with stringent safety requirement

3) Conclusions
- Signing MOU: New and existing amongst APEC members.
- Setting up of an effective information sharing amongst APEC members.
- Workshop for APEC members to understand and learn from APEC members both in setting national policy and strategies
- Understanding ship owner concerns and reaching for best solution for both parties (owners and workforce) through engagement session
- To identify a concept model for APEC members on career development which is interchangeable between APEC member
- Funding of special focus group to assist seafarer education on ancillary industry supporting the maritime industry as a whole
5.5.3. Methods of Encouraging Candidates in Joining Seafarer Careers During Shortage and Lack of Seafarers Sources, Particularly in Developing Countries (Viet Nam)

1) Main Points
- Viet Nam posed a very important question on how we can resolve the issues of shortage and lack of seafarers together by making seafaring career more attractive for younger generation.
- In Viet Nam, the number of the seafarers has been gradually decreasing since 2014 with the following possible reasons: negative perceptions that seafaring is a physically and mentally hard job, having to face rough sea environment and loneliness away from home; diversified range of job opportunities onshore; ramifications of natural decrease of population due to low birth rate have a secondary impact on the influx of seafaring manpower.
- Viet Nam government has been trying to encourage ‘gong to sea’ for Vietnamese by providing supporting policies that: free personal income tax; reduced tuition fee for cadet training, and free tuition fee for retraining; assurance of seafaring job after training.

2) Other Economies’ Approaches
- Korea: introduced the supporting system to maintain high-qualified seafaring manpower by providing a wide range of benefits which include full-financial aid for university, training school tuition for training schedules with allowances, and exemption of mandatory military service when they serve the shipping industry as marine officers for an allotted period. However, the decreasing number of birth-rate and other social factors largely influence the problems in Korea, as Viet Nam pointed out.
- Chinese Taipei: also provides tuition and living allowances at the national level, and assisted cadets in finding suitable jobs as marine officers onboard. The mariners can be called back as military reserves, in case of national emergency.
- Malaysia: shared their situations contrasting those of other economies; the number of ships is in shortage for their cadets to be onboard. This problem causes mariners to quit working onboard and look for work onshore.

5.6. Session 6: APEC Project Final Outcomes-SENAP Strategic Management Plan

5.6.1. Working Group

1) Working Group 1: Future APEC SENAP Projects
- Group Leader: Mr Byoung-Gyu Seo (Republic of Korea)
- Technical Experts:
  - Indonesia) Capt Anugrah Nur Prasetyo
  - Viet Nam) Mr Bui Duy Tung, Capt Luu Viet Hung
  - Thailand) Mr Pishnu Seatapun, (Mr Parinya Lakong
2) Working Group 2: SENAP Terms of Reference
   - Group Leader: Dr Md Redzuan bin Zoolfakar (Malaysia)
   - Technical Experts:
     - China; Mr Yu Hongjiang, Prof. Wang Huanxin
     - Philippines; Ms Josephine Olaso Castillo
     - Peru; Mr Carlos Rodolfo Molina Barrutia, Mr Luis Alberto Chuquisuta Vivas
     - Malaysia; Capt Mohd Fahmi Niza Mohd Tarmizi, Mr Md Redzuanbin Zoolfakar
     - Republic of Korea; Dr Min Jeong, Dr Seunghee Choi

3) Working Group 3: SENAP under MEG of TPTWG
   - Group Leader: Mr Shailesh Kumar Sinha (New Zealand)
   - Technical Experts:
     - Austrailia; Mr Mohan Anantharaman
     - Philippines; Ms Presca Lee B. Lugo
     - Chinese Taipei; Prof. Ku, Chung-Chieh, Prof. Guo, Jiunn-Liang
     - Indonesia; Mr Arizal Hendriawan
     - Malaysia; Ms Zalikha Moslim
     - Republic of Korea; Mr Jin ki Seor, Mr Duk ho Kyung

5.6.2. Output of Working Group Discussion

5.6.2.1. Future SENAP projects

As an inclusive, high-quality one-stop online portal and offline network, Seafarer Excellence Network of Asia Pacific (SENAP) suggested the following future projects to meet the demands of the current and emerging needs of the shipping industry and seafarers of the APEC region.

• Priority Area 1 – Maritime Education and Training

  1) SENAP Onboard Training (including instructor training) / China; New Zealand; the Philippines; Republic of Korea; Thailand; Chinese Taipei
     - Encouraging cadet/lecturer exchange program to reduce cultural difference on board by promoting each other culture
     - To encourage safe working culture onboard
     - Engaging ship-owners to collaborate in providing ship berth for a sustainable growth of the workforce

  2) SENAP Maritime English Communication Training Package / Republic of Korea
     - Development of standard maritime English curriculum, training and testing for
APEC economies to encourage better English communication onboard

3) Standardized SENAP Training Record Book / Indonesia
   - Standardization of training record book which are able to be mutually recognized within APEC economies

• Priority Area 2 – Seafarers’ Better Welfare

1) SENAP Welfare Service Database for Abandoned Seafarers / Malaysia
   - SENAP to assist and advice on providing common database (apps or web based) to assist seafarer on important info (P&I, embassy, pertinent info) in the case of abandonment

2) SENAP Campaign for Women Seafarers / Viet Nam
   - Promotional video to encourage woman participation as seafaring

• Priority Area 3 – Recruitment, Career Development and Job Transition

1) SENAP Career Pathway Guideline for Seafarers / Malaysia
   - Career progression plan for a common SENAP platform for reference

5.6.2.2. SENAP under MEG of APEC TPTWG

Working Group 3 concluded that make SENAP as an official network working under APEC TPTWG-MEG, emphasizing its critical roles for the career-life cycles of seafarers in the APEC regions.

• Active Participation to TPTWG: to make SENAP in an official network of our seafarers under APEC umbrella, an official suggestion not TPTWG will be made at the earliest possible. To make our voice stronger and more unified, active participation in APEC TPTWG is required.

• Both at a Local and APEC Levels: in order to make this more official within APEC, an effort not only at APEC level, but at national level is also required. A strong consensus on the establishment of and active involvement in SENAP within individual economies should be parallel.

6. Conclusion of the Workshop

As the starting point of the APEC project (TPT 02 2018A) on Establishment of the Seafarer Excellence Network of the Asia Pacific (SENAP) started from August 2018 to be completed by March 2019, this workshop has provided invaluable insights on the further research process on the sustainable operation of SENAP in the future and was a great opportunity to reaffirm also every participating economy has voiced their strong support to and active participation in this project. The future process to be carried out by the end of this project through a mutual cooperation are identified as follows:
6.1. Establishment of SENAP Terms of Reference

The draft version of SENAP ToR will be developed into a complete and final version for its official submission to APEC. For this purpose, active communication via electronic means under the leadership of the chair of this special task force will be conducted. The major contents of ToR to be discussed are as follow, but not limited to:

- Roles of SENAP Office: the roles of functions of SENAP secretariat office
- Structure of SENAP: organizations of Steering Committee, Working Groups, Secretariat and others including manpower
- Funding: establishing practical funding plans for sustainable SENAP operation
- Strategic Management Plan: SENAP long-term management plan

6.2. Development of SENAP One-Stop Online Portal

As agreed from the designing process, the purpose of this project is to establish an inclusive, high-quality one-stop online portal along with offline network, which has been successfully launched in August 2018, satisfying the current and emerging needs of the shipping industry and seafarers of the APEC region.

The one-stop portal will be fully financially supported by APEC and its maintenance and upkeep of information/contents will be generously sponsored by Korea Institute of Maritime and Fisheries Technology on a continual basis. This is expected to play as a pivotal role within as the central platform for: (1) sharing a comprehensive set of MET infrastructural and human resources; (2) harmonizing seafarer-related regulations across APEC; and (3) enhancing procedural cooperation and interaction at all levels of the maritime community.

In order to develop SENAP as a single information portal, a list of specialists who will be actively involved in this project should be recommended by and invited from any APEC stakeholders in the maritime sector. The invitation process will be made by the mid of October and a list of specialists will be created by the end of October. Followed by this, the task-force team will be officially activated with the concrete goal of delivering the final output to APEC by March 2019.

6.3. Exploring New SENAP Projects

As discussed in the Working Group 1 across session 6 and 7, consecutive new SENAP project will be discussed and designed in a close mutual cooperation. New concept notes will be submitted in the name of SENAP and its benefits will be directly back to SENAP members.

In developing a concept note, it is highly recommended that the following factors should be considered and checked before the submission for the successful acquisition of funding from APEC.

- Leading economy and co-sponsoring economies: from the development stage of the SENAP concept note, a leading economy should be specified along with more than two co-sponsoring economies. Considering that the benefits of the SENAP project will be directly given to the member economies, an active participation as a leading and
co-sponsoring economies is highly recommended.

- **APEC funding and self-funding:** It is getting highly competitive to get APEC funding, allocating a certain amount of self-funding can be one of major considerations in designing a project. Sharing funding among interested economies will be a good option.

- **APEC project guidelines:** More detailed information on applying APEC project is openly accessible at https://www.apec.org/Projects/Projects-Overview. Throughout the application process, SENAP secretariat will be in assistance as a channel of information and communication among member economies.

### 6.4. SENAP under APEC-MEG umbrella

As an organizing body representing APEC seafarers, who are at the heart of the marine shipping industry, establishing SENAP as an official network working under APEC-MEG will be actively sought and officially proposed. Considering the fact that 13 (i.e. Australia; China; Indonesia; Malaysia; New Zealand; Papua New Guinea; Peru; the Philippines; Republic of Korea; Chinese Taipei; Thailand; the United States; Viet Nam) out of 21 economies, which have the biggest seafaring population across the world, are actively participated for the establishment of SENAP, it is time for us to make our unified voice for our seafarers’ betterment not only within APEC but also to the other related stakeholders across the world. For this purpose, establishing SENAP as an official network in the name of APEC is critical.
7. Photos
CHAPTER 4
2nd APEC SENAP Strategic Planning Meeting

1. Overview
1.1. Introduction

In order to accomplish the establishment of SENAP (APEC TPT 02 2018A), in a manner that is mutually agreed upon and in a harmonized fashion, the 2nd APEC Strategy Planning Meeting for the Seafarers Excellence Network of Asia Pacific (SENAP) was held at the AMOSUP Headquarters, Manila, Philippines, on 3-5 April 2019. The Maritime Industry Authority of the Philippines and Korea Institute of Maritime and Fisheries Technology, Republic of Korea, co-organized and sponsored this meeting. The focus of the meeting was to review key SENAP documents and future plans as detailed below for the for their final submission to 47th APEC TPTWG under APEC Connectivity Blueprint. The participating member economies were China; Indonesia; Malaysia; the Philippines; Chinese Taipei; Republic of Korea; Thailand; the United States; Papua New Guinea; Russia; and Viet Nam.

- The final revision of the Terms of Reference (ToR);
- Strategic 7-year plan (2019-2025);
- Future contribution of each economy for sustainable operation by the optimal use of resources for the best operation of SENAP in terms of funding, manpower, and resource.
1.2. Official Invitation Letter

The 2nd APEC Strategy Planning Meeting
for the Seafarers Excellence Network of Asia Pacific
03-05 April 2019
AMOSUP Headquarters, Manila, Philippines

It is our greatest pleasure to invite you to the 2nd APEC Strategy Planning Meeting for the Seafarers Excellence Network of Asia Pacific (SENAP), to be held at the AMOSUP Headquarters, Manila, Philippines, on 3-5 April 2019.

We are in the final stages in the Establishment of SENAP (APEC TPT 02 2018A), which has been highly supported by 11 economies (i.e. China; Indonesia; Malaysia; Papua New Guinea; Peru; the Philippines; Chinese Taipei; Thailand; the United States; Viet Nam). Our first mutual discussion started from the 2017 APEC International Seminar on Enhancing the Global Capacity of Seafarers in the APEC Region (N. TPT 02 2017S). The procession of this meeting has since taken shape with its development of the 2018 Strategy Planning Meeting for APEC Maritime Capacity Building. These ongoing cooperative activities within APEC have become significant milestones and have been followed by the SENAP declaration, which demonstrate the strong dedication and future commitment to nurture highly educated, well-qualified, and efficient maritime workforce.

In order to accomplish our goal in a sustainable manner in a mutually agreed and harmonized fashion, the new 2019 APEC Strategy Planning Meeting for SENAP will focus on:

- **The final revision of the Terms of Reference (ToR):** which details the goals and objectives of the network; a systematic and organized maintenance and management plan; projects and programs; a regular monitoring process and measurement criteria for enhancing efficiency, effectiveness and productivity of overall procedures; and

- **Strategic 5-year plan (2019-2023):** which will outline short term and long-term goals of SENAP in its current position and its plan going forward; and the timelines of key activities;

- **Development of online platform** where a wide range of seafarers’ solutions such as maritime education and training, welfare and career development can be openly shared and actively discussed among seafarers, academia, industry and relevant entities within APEC economies.

- **Future contribution of each economy** for sustainable operation by the optimal use of resources for the best operation of SENAP in terms of funding, manpower, and resource

- **Presentation of the 2019 new concept notes** and sharing ideas and views on SENAP Strategic Development and Management Planning for the Sustainable Future and SENAP On-board Training to Foster Competent Young Future Maritime Global
Leaders.

The participants in the seminar will include the representatives of the governments and national maritime education and training institutions of participating APEC economies. Travel expenses for travel eligible economies (two delegates per economy from Chile; China; Indonesia; Malaysia; Mexico; Papua New Guinea; Peru; Russia; Thailand; and Viet Nam) including meals, accommodation and flight will be covered. All travelling arrangements will be made and directly by Republic of Korea and the Philippines, which generously co-sponsor this meeting, as soon as the list of participants is informed to SENAP office (k.maritimetraining@gmail.com).

We believe the 2nd meeting will be a great opportunity for all of us to share our perspectives and ideas on the mutual development and active operation of SENAP. We are very much excited to cooperate with you as a standing member of this exciting initiative for the betterment of APEC seafarers and the maritime industry at-large.

If you have any inquiries, please do not hesitate to contact us anytime. We look forward to hearing from you.

Sincerely yours,

Dong-Jae Lee
President, Korea Institute of Maritime and Fisheries Technology
1.3. Program Table

1st Day (3 April 2019)

**Opening Ceremony**

10:15 – 11:50

- **Opening address**
  Mr. Dong-Jae Lee  
  President, Korea Institute of Maritime and Fisheries Technology  
  Republic of Korea

- **Welcoming remarks**
  Mr. RADM Virme P Torralba AFP (RET)  
  OIC-Office of the Executive Director, MARINA-STCW Office  
  The Philippines

- **Congratulatory remarks**
  Mr. VADM Eduardo Ma R Santos  
  Executive VP, AMOSUP  
  The Philippines

- **Keynote speaker**
  Mr. VADM Narciso A Vingson Jr  
  OIC-Office of the Administrator, MARINA  
  The Philippines

- **Progress report of SENAP projects**
  Dr. Seung Hee Choi  
  Assistant professor, Korea Institute of Maritime and Fisheries Technology  
  Republic of Korea

- **Group photo and coffee break**

**Session 2: Working group discussions 1**

11:50 - 13:00 / Plenary 1-1

<table>
<thead>
<tr>
<th>Chair – Mr. Dong Jae Lee</th>
<th>Vice Chair – Dr. Seunghee Choi</th>
</tr>
</thead>
<tbody>
<tr>
<td>President, Korea Institute of Maritime and Fisheries Technology, Republic of Korea</td>
<td>Assistant professor, Korea Institute of Maritime and Fisheries Technology, Republic of Korea</td>
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- **Future contribution of each economy for sustainable operation**
  - Different ways of contributions; Support through personnel, financial, infrastructure (for discussion)

13:00 – 14:30

- **Lunch**
### Session 3: Working group discussions 2

14:30 - 17:30 / Plenary 1-2

**Chair** – Mr. Dong Jae Lee  
President,  
Korea Institute of Maritime and Fisheries Technology,  
Republic of Korea

**Vice Chair** – Dr. Seunghee Choi  
Assistant professor,  
Korea Institute of Maritime and Fisheries Technology,  
Republic of Korea

- Future contribution of each economy for sustainable operation (continued)
  - The update of the ‘Funding’ section under Terms of Reference (ToR)
    *applicable to ‘Funding’ section only*

18:00 – 21:00

- Welcoming dinner

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### 2nd Day (4 April 2019)

#### Session 4: Report of working groups and discussions

09:00-10:30 / Plenary 2

**Chair** – Mr. Yu Hongjiang  
Director,  
Maritime Safety Administration  
China

**Vice Chair** – Dr. Jiunn-Liang Guo  
Professor, National Taiwan Ocean University  
Chinese Taipei

- The establishment of official seafarers’ organization under APEC.
  - Retirement and clarification of SENAP for the officialization under APEC
  - Revision of Busan SENAP declaration
  - MoC for the establishment of seafarers’ organization under APEC

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#### Session 5

11:00 - 12:30 / Plenary 3

**Chair** – Dr. Md Redzuan bin Zoolfakar  
Principal Researcher  
Marine Engineering Technology  
University Kuala Lumpur  
Malaysia

**Vice-Chair** – Mr Mathew Wowoni  
Deputy Secretary,  
Department of Transport,  
Papua New Guinea

- The final revision of the Terms of Reference (ToR)
  *exclusion of funding

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**Lunch**

12:15-14:00
### Session 6

14:00-17:00 / Plenary 4: Strategic 7-year plan (2019-2025)

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<thead>
<tr>
<th>Chair - Mr. Kluev Vitaly (Russia)</th>
<th>Vice-Chair – Mr. Lon Kishiyama</th>
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<tr>
<td>Deputy Head, Administration of Primorsky Region and Eastern Arctic Seaports, Russian Federation</td>
<td>Director, Office of International Activities Maritime Administration Department of Transportation United States</td>
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- Working Group Discussion
  - **WG 1**: Maritime Education and Training (Dr. Redzuan Zoolfakar, Malaysia)
  - **WG 2**: Seafarers’ Better Welfare (Dr. Angelica Baylon, Philippines)
  - **WG 3**: Recruitment, Career Development, and Job Transition (Dr. Taih-Cherng LIRN, Chinese Taipei)

### Technical Tour

17:00 – 18:00 / Technical tour to AMOSUP

### Dinner

18:00 – 21:00 / Networking dinner

### 3rd Day (5 April 2019)

### Session 7

09:00 – 12:00 / Plenary 5: Review of Strategic 7-year plan (2019-2025)

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- Discussion of working group results
  - **WG 1**: Maritime Education and Training (Dr. Redzuan Zoolfakar, Malaysia)
  - **WG 2**: Seafarers’ Better Welfare (Dr. Angelica Baylon, Philippines)
  - **WG 3**: Recruitment, Career Development, and Job Transition (Dr. Taih-Cherng LIRN, Chinese Taipei)

### Lunch

12:00-13:30
2. Discussion

2.1. Future Contribution of Each Economy for Sustainable Operation

This session was chaired by Mr Dong-Jae Lee and Dr Seunghee Choi (Republic of Korea), by putting a specific focus on operation costs of APEC SEN (e.g. office, personnel, operational costs, future APEC SEN events) and future support and activities for fundraising (e.g. membership, donations, resource generating APEC SEN programs). The discussion of each item has been concluded as follows:

- **Headquarter**: KIMFT, Busan, Republic of Korea
- **Personnel**: APEC SEN direct employment, Secondment by each organization, Associates of APEC SEN

2.2. Funding

**Funding via APEC Projects**
- Application for the long-term project
- Application for the short-term project based on the establishment of financial scheme (via the pledging of support from member economies, training institutions, and industry)

**Donation**
- Bodies interested in APEC SEN activities (e.g. AMOSUP, Unions, MET institutions)
- Private sectors in maritime industry (e.g. scholarship from ship owners)
- Support of individual talents and expertise (e.g. researchers, instructors, specialists of respective field in maritime industry)

**Membership fee/contribution**
- From economies
- From industries, relevant entities and individuals (e.g. meals, instructors, training
ships, and simulators etc.)

Resource generating activities

- Accredited APEC SEN Collaboration Centers across APEC region
- Maritime consultation service (e.g. IMSAS) and/or tailor-made solution programs depending on the requirements of industrial/educational needs
- APEC SEN online and offline education and training programs, (inc. books and teaching guide, and train-the-trainer course)
- APEC SEN employment program (AP shipping companies, government officials, MET representatives, exhibition, job fair, high-level industrial conference for dealing with seafarers’ job market)
- Development of testing bank in English format (e.g. TOEIC, IELTS, TOEFL)

2.3. Future Actions for Future Contribution of Each Economy for Sustainable Operation

The following future actions has been suggested as follows:

- Promotion of APEC SEN: Promotion of APEC SEN to APEC economies, maritime industries, MET institution, and unions
- 1st Steering Council Meeting: Further discussion will be carried out in depth when 1st steering council meeting is held in Busan, Republic of Korea (October 2019)
- New Research Project: APEC SEN Strategic Development and Management Planning for Sustainable Future (accredited APEC SEN collaboration centers, maritime consultation service and/or tailor-made solution programs, promotional methods of APEC SEN)

2.4. Final Revision of Terms of Reference

This session was chaired by Dr Redzuan Zoolfakar (Malaysia) and Mr Mathew Wowoni (Papua New Guinea) for the final submission of ToR to 47th APEC TPTWG. The APEC SEN Terms of Reference mutually agreed is attached below. THE APEC SEN Terms of Reference will be circulated through MEG before 47th APEC TPTWG is held for ensuring mutual agreement.

2.5. APEC SEN 7 Year Strategic Plan

This session was co-chaired by Mr Kluev Vitaly (Russia) and Mr Lonnie Kishiyama (United States) and vice-chaired by Prof. Taih-Cherng Lirm (Chinese Taipei) for the final submission of SEN 7 Year Strategic Plan to 47th APEC TPTWG under APEC Connectivity Blueprint. According to terms of reference, three sub-groups are organized:

- Maritime Education and Training (Chair: Dr Redzuan Zoolfakar)
- Seafarers’ Better Welfare (Chair: Dr Angelica Baylon)
- Recruitment, Career Development, and Job Transition (Chair: Prof. Taih-Cherng Lirm)
3. Photo
CHAPTER 5
Establishment of One-Stop Online Portal

1. Overview

Over 90% of intra-regional trade in APEC is facilitated by the maritime industry. Despite advances in technology and the prospects of a safe and readily available fleet of autonomous vessels, the industry will still require a highly educated, fully credentialed, and efficient maritime workforce that maintains the highest standards of professionalism, ethical conduct, and commitment to excellence for at least the next three decades. Yet, today’s maritime workforce is fragmented and not optimized to meet the immediate demands of industry and seafarers, including readiness for the digital age of shipping. The Seafarer Excellence Network of the Asia Pacific (SENAP) aims to fix this problem. SENAP will be a comprehensive, one-stop portal serving the needs of both seafarers and users of seafarers, and in line with this, the establishment of SENAP one-stop online portal for highly skilled mariners, and publication of SENAP strategic management plan will be successfully conducted under the in-depth discussion and active cooperation with APEC member economies.

This project aims to launch an inclusive and comprehensive one-stop portal, where a wide range of seafarers’ solutions such as maritime education and training, welfare, career development and job transition can be openly shared and actively discussed among seafarers, academia, industry and relevant entities within APEC economies.

2. Organization and Contents of the Online Portal

<table>
<thead>
<tr>
<th>Large Category</th>
<th>Interim Category</th>
<th>Small Category</th>
<th>Description on Manageable Items or Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Homepage Management</td>
<td>Managing Pop-up</td>
<td>Account Information</td>
<td>• Contents/Period of output/Provide function to choose usage</td>
</tr>
<tr>
<td>2. Administrator Management</td>
<td></td>
<td></td>
<td>• Menu which shows Connected SNS Account Information, PayPal Account Information</td>
</tr>
<tr>
<td>3. Member Management</td>
<td></td>
<td></td>
<td>• APEC SEN Homepage Administrator (Registration/Revision/Delete/Inquiry)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Grade of Administrator (Super, Normal)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• (Homepage Users) Management of Members (Registration/Revision/Delete/Inquiry)</td>
</tr>
<tr>
<td>4. Board Management</td>
<td><strong>News</strong></td>
<td>• Refer to division of members documents</td>
<td></td>
</tr>
</tbody>
</table>
| | | • Management of posting for each menu (Registration/Revision/Delete/Inquiry)  
| | | • * Except Contents menu |
| | APEC SEN News | • For registration, function that shows related news on 3-group menu of EXPERT GROUPS is required (Check Box)  
| | | • The input topic is inserted in the select box and used as a filter on the user's screen (refer to reward/penalty point function implemented by Manager Koo) |
| | Seafarer News |  |
| | Council Meeting | • Administrator sets password for each posting (0–20 characters)  
| | Expert Group Meetings | • On User's page, after checking True/False for password, members with True are able to check (invalid for nonmembers) (Password shall be given to each person who attended meeting offline)  
| | Workshop | • Support function to upload/download multiple files  
| | Seminar/Conference | • Password of posting is always exposed only on Administrator's page  
| | Capacity Building Program | • The number of hits for posting is always exposed only on Administrator's page |
| | Project Reports | • Organizing Posting Items: Title/Subtitle/Year/Category (Project Name)/Upload Thumbnail/Upload Attachment. However, categorizing function shall be implemented only for Project Reports; it shall be hidden for others  
| | Training Materials | • No Detailed Screen → User's page shall be implemented to download posting when button is clicked  
<p>| | Research reports |<br />
| | Newsletters |  |</p>
<table>
<thead>
<tr>
<th>Events</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Council Meeting</td>
<td>• Revision Screen → Each item can be revised when Revision Button is clicked</td>
</tr>
<tr>
<td>Expert Group Meetings</td>
<td>• Organizing Posting Items: Title/Member Economy/City/Date of Event/Details/Attached File (1EA)/Payment Link → For administrator, the number of registered people and hits for each posting shall be shown</td>
</tr>
<tr>
<td>Workshop</td>
<td>• 3 functional buttons for Detailed Screen for Posting (1) Register: Composition of registration → On administrator's screen, for each posting, there is a function to check application for registered people/account information → It has been discussed that aspects of the application cannot be revised (2) Payment: Implementation of function to allow members registered through PayPal link set by administrator → Administrator shall be able to add another PayPal link for each posting (3) Back – Go back</td>
</tr>
<tr>
<td>Seminar/Conference</td>
<td></td>
</tr>
<tr>
<td>Capacity Building Program</td>
<td></td>
</tr>
<tr>
<td>Campaigns</td>
<td></td>
</tr>
<tr>
<td>APEC SEN Activities</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Photo</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Organizing Posting Items: Title/Name of Event/Date of Event/Member Economy/City/Contents/Uploaded Image (Multiple, Unrestricted) → Administrator's page shall be organized same as User's page → It shall be able to be searched by Year/Name of Event</td>
<td></td>
</tr>
<tr>
<td>• Organization of List of Postings shall be title/member economy/city/number of hits</td>
<td></td>
</tr>
<tr>
<td>• Pictures in postings shall be downloaded individually</td>
<td></td>
</tr>
</tbody>
</table>

<p>| Online Meeting | • Organizing Posting Items: title/related event/status(in- |</p>
<table>
<thead>
<tr>
<th>E-Learning</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Organizing Posting Items:</strong> Title/3 Labels for postings (Checkbox)/YouTube URL (Source Code)</td>
<td></td>
</tr>
<tr>
<td><strong>Screen Arrangement for List of Postings:</strong> Title/3 Labels for postings/Revision Button → YouTube video in new window when title is clicked</td>
<td></td>
</tr>
<tr>
<td><strong>Detailed screen for posting is YouTube video; thus, revision screen exists separately</strong></td>
<td></td>
</tr>
</tbody>
</table>
5. Statistics

- Functions to search by title and to filter by labels are implemented
- Function for the number of visitors, the number of visitors for certain period shall be implemented
3. Screenshots of the Major Webpage Contents

3.1. Main page

APEC Seafarer Excellence Network

RECENT PUBLICATION

ON-GOING PROJECT

UPCOMING EVENT

The 2nd APEC Strategy Planning Meeting for the Seafarers Excellence Network

The concept note on SENAP Strategic Development and Management Planning

APEC Seafarers Excellence Network Opening Ceremony and the First Steering

APEC SEN NEWS

The 1st APEC Workshop on Seafarer Excellence Network of the Asia Pacific

Opening Ceremony of Seafarers Excellence Network of the Asia Pacific held on 21-23 August 2011

Yan-Ang Marino reports on the the 2nd ...
3.2. About APEC SEN

Background

Occupying approximately 60% of the total seafaring workforce worldwide, our seafarers in APEC region play a critical role in the international shipping industry. From this perspective, it is evident that their capabilities as key maritime professionals are directly linked to the sustainable future growth and prosperity of APEC economies, keeping in mind that more than 90% of all international commerce is realized by way of ships whilst seafarers operating the ships are at the heart of all transactions. It is expected that its importance will greatly be accentuated in the years to come at least for the next three decades. Meanwhile, the recent emergence of autonomous vessels has also been a cause for concern. The focus to address this matter urges a mutual cooperation on establishing a support system for our seafarers to proactively react to the rapid changes and further take this opportunity as another step of developing their career paths in the digital age with an in-depth knowledge and experiences that they have accumulated at sea.

In order to address these issues by designing and implementing innovative strategies and practical activities for seafarers in a diverse spectrum through a closely interconnected mutual cooperation within APEC, the discussion of the establishment of Seafarer Excellence Network of the Asia Pacific (APEC SEN) was first initiated in 2017 APEC
3.3. APEC SEN NEWS

The 1st APEC Workshop on Seafarers Excellence Network of the Asia...
07-May-2019
August 21-23, 2018, Busan, Republic of Korea
The 1st APEC Workshop on Seafarers Excellence Network of the Asia Pacific was held on 21-25 August 2018 at Korea Institute of Maritime and Fisheries Technology, Republic of Korea. The aims of the workshop were to hold the first international workshop for SENAP in August of 2018 to create a future action plan on how...

Opening Ceremony of Seafarers Excellence Network of the Asia...
07-May-2019
During the 1st APEC Workshop on Seafarers Excellence Network of the Asia Pacific held on 21-23 August 2018 at Korea Institute of Maritime and Fisheries Technology, Republic...

Yan Ang Marino reports on the 2nd APEC Strategy Planning...
07-May-2019
Yan Ang Marino, the first and longest-running TV program dedicated to Filipino seafarers hosted by Ms. Mercielia Yao and Vice Admiral Eduardo Santos featured a full segment...

The 2nd APEC Strategy Planning Meeting for the Seafarers Excellence...
07-May-2019
April 03-05, 2019, Manila, The Philippines
The 2nd APEC Strategy Planning Meeting for Seafarers Excellence Network of the Asia Pacific took place on April 03-05, 2019 at t...

3.4. APEC SEN Expert Groups

1
Maritime Education and Training

The initiatives of Maritime Education and Training Expert Group will be pursued along the following focuses, but not limited to:

- Co-developed major MET programs within APEC to enhance seafarers’ capacity
- Design of IMO STCW and the model courses based on high-quality standardized MET courses and contents and certificates mutually approved within APEC economies upon successful completion
- The establishment and provision of varied train-the-trainer MET courses to improve instructors’ capacity and designate them as APEC-accredited instructors
- Facilitating lifelong distance learning by sharing an online platform within APEC economies to better support seafarers’ education and training both onboard and ashore
- An interconnected online platform between career development and lifelong learning for seafarers to identify what qualifications are required for further professional development and job transition and, on that basis, take relevant courses and certificates

3.5. Projects
International seminar on Enhancing the Global Capacity of Seafarers

An APEC international seminar on “Enhancing the Global Capacity of Seafarers in the APEC Region”, organized by Asia-Pacific Economic Cooperation (APEC), Ministry of Oceans and Fisheries, Busan Metropolitan City and hosted by Korea Institute of Maritime and Fisheries Technology was held in Busan 17–20 October.

The aim of this seminar was to explore ideas and suggestions for the global capacity-building of our seafarers for successful entry and sustained participation in the global maritime economy. The major goals were to:

- Identify the key competencies of seafarers in terms of global capacity-building as a major source of human capital for the shipping industry;
- Explore the possibility of an improved training and education system;
- Discuss the provision of systematic and continuous development opportunities for seafarers as part of a lifelong learning system; and
- Support future actions among APEC economies.

This seminar was evaluated as a huge opportunity for all of us to share our perspectives on the global capacity building of seafarers and enhance their employability in the global market.

3.6. Meeting Papers/File Sharing
3.7. Publication
3.8. Events
APEC SEN Opening Ceremony and the First Steering Council Meeting

Republic of Korea - Busan

02 August 2019

3.9. Photos
3.10. Online Conferences
3.11. Online Learning
4. Usability Survey Results
4.1. Procedures

Upon the completion of the error detections and corrections the usability tests was conducted through Google Online Questionnaire (https://forms.gle/vjheWzafFhfiSmv56). The email inviting the testing of the front-end were distributed to APEC SEN members as follows, and 77 participants from 17 economies were responded to this survey.
Subject: APEC SEN Website Survey Request

Dear Mr. ———— ————,

Thank you for your invaluable support in all APEC SEN related activities. We would like to take this time to send a cordial request for a brief survey on the APEC SEN website. Please review the website by clicking the following link:


And fill out a basic survey form from the following link:

https://forms.gle/vjheWzaFhfISmv56

We thank you very much for your time and participation.

Sincerely,

APEC SEN Secretariat

The questionnaire was designed in an easy-to-follow manner, so that any levels of the stakeholders of APEC SEN can check and evaluate the webpage. The list of questions is as shown below and the original online version with detailed explanation can be checked at https://forms.gle/vjheWzaFhfISmv56.

<table>
<thead>
<tr>
<th>No.</th>
<th>Questions</th>
<th>Choose value from drop down list</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>The website is designed efficiently for the user’s purpose.</td>
<td>Choose an item.</td>
</tr>
<tr>
<td>2.</td>
<td>The information on this website is professional.</td>
<td>Choose an item.</td>
</tr>
<tr>
<td>3.</td>
<td>The website is convenient with pleasing color scheme.</td>
<td>Choose an item.</td>
</tr>
<tr>
<td>4.</td>
<td>The website homepage menu is well configured.</td>
<td>Choose an item.</td>
</tr>
<tr>
<td>5.</td>
<td>It is easy to navigate through the website.</td>
<td>Choose an item.</td>
</tr>
<tr>
<td>6.</td>
<td>Searching for content I need is convenient.</td>
<td>Choose an item.</td>
</tr>
<tr>
<td>7.</td>
<td>I can effectively complete tasks through the use of this website.</td>
<td>Choose an item.</td>
</tr>
<tr>
<td>8.</td>
<td>The website offers a clean and simple presentation without errors.</td>
<td>Choose an item.</td>
</tr>
</tbody>
</table>
9. This website is easy to use.  
10. I am satisfied with the website’s speed and upload time.  
11. This website has all the functions and capabilities I expect it to have.  
12. Overall, I am satisfied with the website.  
13. What aspect of your visit stood out the most during your visit to the website?  
14. What improvement if any is needed for the best usage of this website?

4.2. Participants

The number of the participants of this survey is 77 in total from 16 economies. The distribution of the economies is as illustrated in Table 1. A large number of the participants were from Republic of Korea; followed by China (10); the Philippines (5); Peru (4) and others. The list of participants are attached as Appendix 3.

<table>
<thead>
<tr>
<th>N.</th>
<th>Member Economy</th>
<th>Number of Respondents</th>
<th>N.</th>
<th>Member Economy</th>
<th>Number of Respondents</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Republic of Korea</td>
<td>43</td>
<td>9</td>
<td>Malaysia</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>China</td>
<td>10</td>
<td>10</td>
<td>Mexico</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Philippines</td>
<td>5</td>
<td>11</td>
<td>Thailand</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Peru</td>
<td>4</td>
<td>12</td>
<td>Viet Nam</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Indonesia</td>
<td>2</td>
<td>13</td>
<td>Australia</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>Japan</td>
<td>2</td>
<td>14</td>
<td>Chile</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>Singapore</td>
<td>2</td>
<td>15</td>
<td>United States</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>Canada</td>
<td>1</td>
<td>16</td>
<td>Turkmenistan</td>
<td>1</td>
</tr>
</tbody>
</table>

Table 1) Distribution of Member Economies

4.3. Results of the Usability Test

As shown in the questionnaire, most of the questions were organized in a Likert Scale, which
is one of the most commonly applicable psychometric scales for research. The results of the survey were quite positive, which show agree and/or strongly agree in terms of design efficiency (88.2%), professionalism of information (89.5%), design color scheme (82.9%), menu configuration (84.2%), easy navigation through the website (86.9%), convenience for searching information (81.6%), effectiveness of completing tasks (85.5%), clean and simple presentation without errors (85.4%), easy to use (87.8%), speed of Web (86.7%), satisfaction of functions and capabilities (86.9%), and overall satisfaction (89.5%). The detailed survey results are illustrated as follows (from Table 2-13):

Table 2) Design Efficiency

Table 3) Professionalism of Information
The website is convenient with pleasing color scheme.

Table 4) Design Color Scheme

The website homepage menu is well configured.

Table 5) Menu Configuration

It is easy to navigate through the website.

Table 6) Easy Navigation through the Website
### Table 7) Convenience for Searching Information

<table>
<thead>
<tr>
<th>Score</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>2</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>3</td>
<td>14</td>
<td>18.4%</td>
</tr>
<tr>
<td>4</td>
<td>26</td>
<td>32.9%</td>
</tr>
<tr>
<td>5</td>
<td>37</td>
<td>48.7%</td>
</tr>
</tbody>
</table>

### Table 8) Effectiveness of Completing Tasks

<table>
<thead>
<tr>
<th>Score</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>2.8%</td>
</tr>
<tr>
<td>3</td>
<td>9</td>
<td>11.8%</td>
</tr>
<tr>
<td>4</td>
<td>26</td>
<td>34.2%</td>
</tr>
<tr>
<td>5</td>
<td>39</td>
<td>51.3%</td>
</tr>
</tbody>
</table>

### Table 9) Clean and Simple Presentation without Errors

<table>
<thead>
<tr>
<th>Score</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>1.3%</td>
</tr>
<tr>
<td>3</td>
<td>10</td>
<td>13.3%</td>
</tr>
<tr>
<td>4</td>
<td>17</td>
<td>22.7%</td>
</tr>
<tr>
<td>5</td>
<td>47</td>
<td>62.7%</td>
</tr>
</tbody>
</table>
Table 10) Easy to Use

Table 11) Speed of Web

Table 12) Satisfaction of Functions and Capabilities
Table 13) overall satisfaction

In the open questions, asking ‘the aspect stood out during the visit to the website’ and ‘improvements needed to be made’, a wide range of answers were given as follows. The feedbacks from the participants will be accommodated in the warranty and maintenance period, regardless of the project period (The errors of language were not changed and local language other than English were translated and presented with local language).

<table>
<thead>
<tr>
<th>What aspect of your visit stood out the most during your visit to the website?</th>
</tr>
</thead>
<tbody>
<tr>
<td>• The information that have been discussed.</td>
</tr>
<tr>
<td>• Searching for the documents.</td>
</tr>
<tr>
<td>• Video clip.</td>
</tr>
<tr>
<td>• It would be very helpful for seafarers. Thank you.</td>
</tr>
<tr>
<td>• Everything</td>
</tr>
<tr>
<td>• All good.</td>
</tr>
<tr>
<td>• All is very well.</td>
</tr>
<tr>
<td>• The directions of information.</td>
</tr>
<tr>
<td>• Convenience</td>
</tr>
<tr>
<td>• SNS link</td>
</tr>
<tr>
<td>• Search</td>
</tr>
<tr>
<td>• Get information</td>
</tr>
<tr>
<td>• For information</td>
</tr>
<tr>
<td>• It was comfortable to get Workshop info relating Seafarer's event</td>
</tr>
<tr>
<td>• video data</td>
</tr>
<tr>
<td>• All of aspects (in general) are user friendly.</td>
</tr>
<tr>
<td>• Pictures of the scene</td>
</tr>
<tr>
<td>• APEC SEN News</td>
</tr>
<tr>
<td>• Translate.</td>
</tr>
</tbody>
</table>
• Tidy construction
• Pictures of meetings and events were visually pleasing and interesting.
• The overall screen layout matches the marine image and the content is very good!
• To search
• The picture is good.
• Well organized icons/subjects but need to put more data or inputs under each icon or subject. Great thinking and effort! Well done!
• It helps to the Filipino seafarer to be more aware in all circumstances
• Easy to navigate
• Recent update
• Publications
• The contents have been properly laid out and well-illustrated. Very nice.
• Photo
• I like the blue webpage background color.
• I like the idea of putting up a Section for Meeting Papers/File Sharing as this will be useful for research purposes and for the stakeholders as well. The provision of Section for Online Meeting is likewise commendable.
• APEC SEN NEWS

What improvement if any is needed for the best usage of this website?

• Online lecture
• I felt that the webpage server was a bit slow compare to others.
• Good
• Nothing
• Noting at all
• It would be very helpful for seafarers. Thank you.
• Nope.
• Nothing. Satisfactory.
• NOTHING
• Q and A section.
• Information about international knowledge.
• Making the 'Recruit board' can be very helpful for APEC Seafarers.
• Question and Answer Function
• Nothing.
• None.
• Easier information and present situation in the field.
• I think it would be better off if you offer a mobile version website to keep pace with latest trend.
• Mobile friendly configuration
• It is also hoped that the ship's crew will be able to communicate with each other via its website.
• Already a great website. Thank you!
• 선원들의 관련 취업이나 학위와 관련된 정보도 있었으면 좋겠습니다 (We would like to suggest that information regarding job entrance, career development and degree for seafarers can also be indicated for easier access).
• It is more convenient to visit if Mobile web page is. Because most seafarer will visit this web site to the mobile phone.
• file sharing by all APEC economies which can be shared voluntarily on the website, also to include various website links for seafarers welfare, MET etc which APEC SEN could partner
• APEC SENS 의 활성화를 기원합니다. 선원 간의 커뮤니티 공간이 활성화되어 업무적으로도 생활적으로도 선원 간 교류의 장이 되길 바랍니다. (We hope APEC SEN can be more activated as one-stop platform in seafarers' real lives for exchanging information).
• I think if the web site has translation to other language, it is more helpful to use web
• Text font size and spacing
• Simple arrangement would be better
• More information regarding seafarers and opportunities
• Hope it is compatible with mobile devices.
• ☭ ☭ ☭ , ☭ ☭ ☭ ☭ ☭ ☭ ☭ ☭ ☭ ☭ ☭ ☭ ☭ ☭ ☭ ☭ (The internet is quite slow onboard vessel. For that, it is hard to get the contents information.).
• It is humbly suggested to put a Section in the Website where the Maritime Education and Training, Certification and Welfare-Related Matters of each Member Economy can be seen, either through a link in each economies website or one future project of APEC SEN will allow the consolidation of all the need information to be included in the website. This will be very helpful and will be very beneficial not only for each economy but to the concerned stakeholders as well.

In terms of the improvements, the more information sources for recruit and career development, mobile friendly configurations, a more diversified communication channels (through chat and Q&A) were suggested. The valuable comments from the participants will be applied on a step-by-step basis in a future refinement plan.
CHAPTER 6
SENAP Online Conferences

1. Introduction
Online taskforce meetings had been conducted with a regular time interval with the aim of
drawing the blueprint of SEN and feasible and practical cross-border programs, and
developing a global-level online portal for seafarers.

2. Reports of Online Meeting

2.1. SENAP Inter-sessional Working Group 1

Conference Date: 19 December 2018 (09:00 Singapore Standard Time)

Participants

<table>
<thead>
<tr>
<th>Attendee</th>
<th>Economy</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tony Hahn</td>
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<tr>
<td>Shailesh Sinha</td>
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<td>Castillo</td>
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</tr>
<tr>
<td>Glenn Mark Blasquez</td>
<td>Philippines</td>
<td></td>
</tr>
<tr>
<td>Jin Ki Seor</td>
<td>Republic of Korea</td>
<td><a href="mailto:jinkiseor@gmail.com">jinkiseor@gmail.com</a></td>
</tr>
</tbody>
</table>
Approval of the agenda
- The Chair welcomed members of the Steering Committee (SC) for first APEC Intersessional working group meeting (Dr Seunghee Choi, Republic of Korea, will chair the intersessional group until the Chair of the SENAP will be officially appointed).
- The agenda as attached to the invitation was approved.

Report and Action Items of Previous Meetings
- The actions from last meeting were reviewed: 1st APEC workshop on SENAP, and 46th TPTWG-MEG meeting. Main points from the TPTWG-MEG Peru meeting was the formal creation of SENAP under the APEC umbrella as detailed in the extract of the MEG final report below, along with the planning of the intersessional working group meeting (19, December 2018). All relevant documents to be submitted to APEC TPTWG and discussed on 23-26 April for the 47th APEC TPTWG meeting in Vancouver, Canada.

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**Final Report of Maritime Experts Group (MEG), 46th TPTWG-MEG, Peru**

**Update on on-going Projects**
Korea updated the project “Establishment of the Seafarer Excellence Network of the Asia Pacific (SENAP)”, introducing its progress and future development of an official networking body under the APEC. The MEG acknowledged the significance of the project and provided constructive comments for the successful completion of the project by 2019. Korea is invited to prepare formal suggestions with a necessary documentation for the next meeting to be held in Canada and to coordinate this preparation intersessionally with other MEG members by correspondence.
Final Report
Capacity Building

Korea presented the progress of the project, “Establishment of the Seafarer Excellence Network of the Asia Pacific”. Korea is invited to prepare necessary formal suggestions to the next meeting and to coordinate this preparation intersessionally with other MEG members by correspondence.

Action items:
- Members of the committee are asked to draft following documents: ToR, 5-year strategic plan, New concept notes for 2019, SENAP online platform
- The Secretary is asked to submit final report of 46th APEC TPTWG-MEG.

Questions/comments:
- Regarding TPTWG ToR for SENAP are we looking at a subgroup of maritime secretary or standalone similar to APSN network?
- This should be further discussed to decide if SENAP should be a part of the MEG or become a sister-network such as APSN which is led by China. While developing the ToR, the most suitable option to be submitted to APEC should be discussed. This will be a part of discussion in the intersessional working group meeting.
- Regarding documents for the strategic plan, one of the key points to consider is to carefully review items to not overlap on things that have already been done. This should be reviewed with the ToR committee and should look at all aspects. All inputs from all economies are welcome for review.

Future events
Host provided two upcoming scheduled meetings for 2019; APEC workshop in Manila, Philippines and the 47th APEC TPTWG meeting in Vancouver Canada. In order to prepare SENAP to become officialised under APEC as a TPTWG organization in the 47th APEC TPTWG meeting on 23-26 April Vancouver, Canada, a workshop is tentatively set for the month of April in Manila, Philippines.

Action items:
- The Philippines economy is currently looking into the logistics for requirements to host workshop.
- Current proposed venue is at the AMOSUP headquarters in Manila, Philippines.
- Members of the committee are asked to prepare a list of participants.
- Approximately 500,000 pesos that would cover food and accommodation of participants.
SENAP secretariat is asked to submit documents to justify the allocation of funds for proposed workshop. Further discussions for the drafting of documents will be scheduled.

Questions/comments:
When should economies expect invitations to the workshop?

Invitations are tentatively set to be sent at the end of December 2018, depending on the official date of the workshop. Suggestions included a range of two weeks to two months advanced notice for invitations and agendas as approval process differs by economy. Schedule conflicts have been noted from several economies; the month of March has also been proposed by several economies. Delegates from Malaysia would prefer dates that do not coincide in 26-30th of March, delegates from China would prefer mid-March. Further discussions will be made and finalized.

SENAP Agenda
The Workshop Program was reviewed and discussed on the following agendas to find participants to lead each committee:

- **WG 1: Terms of Reference**
  - Dr Redzuan Zoolfakar has been nominated to lead the working group on the ToR.

- **WG 2: New concept notes for proposed plan (2019) and Strategic 5-year plan (2019-2023)**
  - Chinese delegation has been nominated to lead the working group for proposed plan 2019 and 2019-2023.
  - Proposals for discussion include SENAP onboard training, discussion of self-funded (TMAS) telemedicine (Busan National Hospital) and benchmarking study led by the Philippines delegation.
  - Pending actions: Funding for benchmark study under consideration through further discussions
  - Benchmark study open to all economies for discussion

- **WG 3: Development of online portal**
  - Malaysia delegate Capt Mohd Fahmi Niza has been nominated to lead the working group on the development of SENAP online portal.
  - Proposal to include sharing of videos on health issues from Busan National Hospital

Action items:
- Members of SENAP are asked to participate and draft concept notes in order to submit to APEC in January.
- Suggestions included the continuation of the six points from APEC workshop in Busan for the proposed planning of 2019:
Priority Area 1
- SENAP onboard training (including instructor training)
- SENAP Maritime English Communication Training Package
- Standardized SENAP Training Record Book

Priority Area 2
- SENAP Welfare Service Database for Abandoned Seafarers
- SENAP Campaign for Woman Seafarers

Priority Area 3
- SENAP Career Pathway Guideline for Seafarers

- Results of SC1 Report APEC Inter-sessional Working Group to be sent to all members via email.

Questions/comments:
What is the purpose for onboard training?

The first project has been proposed for a trial program for educators and curriculum design. Following successful implementation, program should be opened to cadets and/or seafarers. Starting discussions are important at this stage with further discussions carried out during the intersessional meetings.

Will every economy will be included in Proposal (preparation for onboard training)?

Discussions are open to all economies.

Will these (WG1, WG2, WG3) be discussed during the workshop in Manila?

The conclusions of the working groups should be discussed in detail during the Manila workshop, prior to its submission of the 47th APEC-TPTWG.

Established Timeline
- Host informed that timeline for next meeting should be discussed at the beginning of January 2019.
- WG1, WG2, WG3 should be discussed through online discussions, and prepare and draft documents to be submitted to in the 47th APEC TPTWG meeting on 23-26 April Vancouver, Canada.
- Manila Workshop tentatively set for March or April will finalize the official documentation to be submitted to APEC in a harmonized and cooperative manner.
- Apart from this, new concept notes will be discussed through online discussions by economies interested in and developed by the end of January.
- Discussions for date of each meeting are to be planned and sent by the end of December 2018.
Date of Next Meeting
- Proposal for the 2nd meeting of the SC (SC2) will take place on 15 January 2019, 09:00 Singapore Standard time via GoToMeeting. All members of the SC will be invited by e-mail.

Any Other Business
- Report of the meeting will be sent for clarification and drafting of concept notes.
- On a side note, Capt Carlos Rodolfo Molina Barrutia announced the proposal approved by APEC workshop will be held by National Port Authority of Peru in October 2019, APSN meeting in Singapore concluded with the order to develop workshop at the same time with APSN in Peru to be tentatively held at the Sacred Valley of the Incas in October (1st week).
- There were no further questions or remarks.

List of Annexes

Annex A: Outstanding Actions:

<table>
<thead>
<tr>
<th>Meeting</th>
<th>Action</th>
<th>Status</th>
</tr>
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<tbody>
<tr>
<td>SC1-1</td>
<td>The Secretary is asked to submit final report of APEC TPTWG-MEG</td>
<td>21 December 2019</td>
</tr>
<tr>
<td>SC1-2</td>
<td>Results of SC1 Report APEC Inter-sessional Working Group to be sent to all members via email.</td>
<td>21 December 2019</td>
</tr>
<tr>
<td>SC1-3</td>
<td>SENAP secretariat is asked to submit documents to justify the allocation of funds for proposed workshop in the Philippines. Further discussions for the drafting of documents will be scheduled.</td>
<td>By 4 January 2019</td>
</tr>
<tr>
<td>SC1-4</td>
<td>Members of SENAP are asked to participate and draft concept notes for each Working Group to be submitted to APEC in January.</td>
<td>By SC2 (15 January 2019)</td>
</tr>
<tr>
<td>SC1-5</td>
<td>Chairs of each WG are asked to draft following documents: ToR, 5-year strategic plan, SENAP online platform. Relevant background documents will be sent to WG chairs and discussed.</td>
<td>By SC2 (15 January 2019) 24 December 2019</td>
</tr>
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</table>

Annex B: A List of Input Documents for SC 1
- APEC SC1 Report
- 2018 Interim Report on the Establishment of SENAP
- TPTWG ToR
- TPTWG Proposed Work Plan 2018
- TPTWG Strategic Work Plan 2018-2020
- APEC Concept Note 2019
2.2. **SENAP Inter-sessional Working Group 2**

**Conference Date:** 25 January 2019 (09:00 Singapore Standard Time)

**Participants**

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<tr>
<th>Attendee</th>
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<tr>
<td>Motohisa Abe</td>
<td>Japan</td>
<td></td>
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</tr>
<tr>
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<td>Larry Yim</td>
<td>SENAP secretariat office</td>
<td><a href="mailto:lyim53@gmail.com">lyim53@gmail.com</a></td>
</tr>
</tbody>
</table>
Approval of the agenda
- Host welcomed members of the Steering Committee (SC2) for 2nd APEC Intersessional working group meeting (Director of Ocean and Ministry of Korea Ms Jin Hee Seo chaired the meeting).
- The agenda as attached to the invitation was approved.

Report and Action Items of Previous Meetings
- The actions from last meeting were reviewed as outlined in Part 8: Outstanding Actions of SC1 report (ANNEX A). Status of outstanding reports have been updated.
- Additional updates were reflected on the selection of Chairs of WG1, WG2, WG3. Working group 1 -ToR will be chaired by Dr Redzuan Zoolfakar, WG2 -New concept notes for the proposed plan (2019) and Strategic 5-year plan (2019-2023) will be led by Chinese delegation, WG3- Development of Online Portal will be led by Capt Mohd Fahmi Niza an update by the APEC secretariat was given with a final selection of bidder and approved funding of the development of online portal.
- An update on the next workshop in Manila was also given along with updates of the Benchmarking study led my Ms Presca Lee B. Lugo and Ms Josephine Castillo.

<table>
<thead>
<tr>
<th>Meeting</th>
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<tbody>
<tr>
<td>SC1-1</td>
<td>The Secretary is asked to submit final report of APEC TPTWG-MEG</td>
<td>21 Dec. 2019</td>
<td>Completed</td>
</tr>
<tr>
<td>SC1-2</td>
<td>Results of SC1 Report APEC Inter-sessional Working Group to be sent to all members via email.</td>
<td>21 Dec. 2019</td>
<td>Completed</td>
</tr>
<tr>
<td>SC1-3</td>
<td>SENAP secretariat is asked to submit documents to justify the allocation of funds for proposed workshop in the Philippines. Further discussions for the drafting of documents will be scheduled.</td>
<td>By 4 January 2019</td>
<td>Completed 27 Jan 2019</td>
</tr>
<tr>
<td>SC1-4</td>
<td>Members of SENAP are asked to participate and draft concept notes for each Working Group to be submitted to APEC in January.</td>
<td>By SC2 (15 Jan 2019)</td>
<td>On going</td>
</tr>
<tr>
<td>SC1-5</td>
<td>Chairs of each WG are asked to draft following documents: ToR, 5-year strategic plan, SENAP online platform. Relevant background documents will be sent to WG chairs and discussed.</td>
<td>By SC2 (15 Jan 2019)</td>
<td>On going</td>
</tr>
</tbody>
</table>
Action items:
- Members of the committee are asked to draft following documents: ToR, 5-year strategic plan, New concept notes for 2019, SENAP online platform

Questions/comments:
- None

SENAP Agenda
The Workshop Programme was reviewed and discussed on the following agendas led by respective chairs of each working group. The agenda was approved as follows:

- (WG 1) Terms of Reference (Chair - Dr Redzuan Zoolfakar) (10, January, 2019)
- (WG 2) New concept notes for the proposed plan (2019) and Strategic 5-year plan (2019-2023)
- (WG 3) Development of Online Portal (Dr Mohd Fahmi Niza)
- Workshop in Manila (Ms Presca Lee B. Lugo and Ms Josephine Castillo)
- Benchmarking Study (Ms Presca Lee B. Lugo and Ms Josephine Castillo)

(WG 1) Terms of Reference (Chair - Dr Redzuan Zoolfakar)
- Led by Dr Zoolfakar Terms of Reference (ToR) were amended (Part II 3.1 SENAP Steering Council, 3.2 SENAP Expert Group, 3.3 Secretariat) for additional input and approval.
- Chair updated Part I (Background), Part III (Funding). Part IV (Entry into Force) as an “as is” status as it was agreed upon during the Busan workshop held on 21-23 August 2018 or awaiting further clarification and/ or updates by economy members. Part II (Establishment of SENAP) of the ToR was amended for review, which may be reviewed under the list of input documents filed under the SC2 Final report.

Action items:
- Members of SENAP are asked to review, add suggestions, and comment on ToR draft for final review during the Manila Workshop.
- Suggestions are open to all economy members and can be emailed to Dr Redzuan Zoolfakar at redzuan@unikl.edu.my no later than February 14, 2019.
- Comments and suggestions to change may also be found at the link below:
Questions/comments: None

- **(WG 2) New Concept Notes for the Proposed Plan (2019) and Strategic 5-year plan (2019-2023)**
  - Led by the Chinese delegation Mr Wang Huanxin has submitted a draft in which contents include: The Introduction, Mission, Vision and Strategic Plan overview. Chair has amended the strategic plan for review.
  - Korean delegation has suggested 3 concept notes to be drafted for 2019 with member economy pledging participation. The concept note is open to all economy members wishing to participate and add to the concept notes #1, and #3 to be submitted by early February.
    
    1) SENAP strategic development and management planning (Philippines; Malaysia)
    2) Advancement of seafarers Health and Wellness through telemedicine at sea
    3) SENAP onboard training (workshop) (Philippines; China; Malaysia)
  
  - Member economies may add their input and participation by emailing k.maritime@gmail.com. Further discussions in the five-year strategic plan included a possible option for SENAP to join the IMO as a nongovernmental organization (NGO). As a seafarer centered body, a model course may be developed under the name of SENAP. More discussions needed for review.

Action items:
- Members of SENAP are asked to review, add suggestions, and comment on New Concept Notes for Proposed Plan (2019) and Strategic 5-year plan (2019-2023) for final review during the Manila Workshop.
- Suggestions are open to all economy members and can be emailed to Mr Wang Huanxin at wanghxdmu@163.com no later than February 14, 2019
- Comments and suggestions to change may also be found at the link below: https://docs.google.com/document/d/1nV6jWhh9D7lIxG2kx2lDTtun1hy25IHC45RK05HA7Uul/edit?usp=sharing

- Concept note open discussion and participant declaration to be emailed to Mr Wang Huanxin wanghxdmu@163.com and or SENAP Secretariat k.maritimetraining@gmail.com no later than 07 February 2019.
  
  1) SENAP strategic development and management planning (Philippines; Malaysia)
2) Advancement of seafarers Health and Wellness through telemedicine at sea
3) SENAP onboard training (workshop) (Philippines; China; Malaysia)
   - Follow up will be reviewed during the SC3 meeting

Questions/Comments:
- If SENAP is to be branched under APEC, other options must be discussed as APEC is not considered an NGO. How would SENAP be an NGO under APEC?

- Under IMO as APEC-SENAP we could be considered as an intergovernmental association. We should discuss and define our category. If SENAP plans to pave way for academia and industry membership for example, it may broaden membership and be regarded as an NGO. In any case, both NGO or IGO platforms are feasible and open for discussion going forward. Moreover, discussions should be considered to join IMO. The NGO path may need another review of the current ToR. The path to NGO will mean a standalone from government and academies.

• (WG 3) Development of Online Portal (Dr Mohd Fahmi Niza)
  - Led by Capt Mohd Fami Niza, the contract with online portal company was finalized on 17, January 2019. Contract with winning bidder EDINET. Chair exhibited several templates for future design of APEC SENAP website with recommendations of website to be aligned with contents on APEC website.

Action items:
- Members of SENAP are asked to review, add suggestions of content, and comment on Development of Online Portal for final review during the Manila Workshop.
- Suggestions are open to all economy members and can be emailed to Capt Mohd Fahmi Niza at fahmi@smemalaysia.com.my no later than 8 February 2019
- A preview page would be need by April during the Manila workshop
- Follow up will be reviewed during the SC3 meeting

Questions/Comments:
- A comment from member economy Peru had concerns of KIMFT logo and information on website design.
- Upon further clarification, bidder submitted several designs as a template and not as the official SENAP webpage.
- Question from member economy China inquired on the use of APEC/ SENAP logo.
- According to APEC regulations both logos must be used since funding is coming from APEC.
- Suggestions from the Philippines to list all economies (certification, maritime education etc.)
Workshop in Manila (Ms Presca Lee Lugo and Ms Josephine Castillo)

Chair informed that the 2nd APEC Strategy Planning Meeting will be held in Manila at AMOSUP Headquarters on 3-5 April 2019. Current budget stand at 500,000 pesos with additional funding to be approved after submission of itemized budget report.

**Action items:**
- Request for MOA between SENAP and MARINA. (draft to be sent)
- Participant list should be finalized at least 1 month prior to workshop. (3 March 2019)
- To cover airfare and accommodations an itemized budget report for funds above 500,000 PhP
- Update of list of events will be sent to Admiral Santos (AMOSUP)
- Follow up will be reviewed during the SC3 meeting

**Questions/Comments:** None

Benchmarking Study (Ms Presca Lee B. Lugo and Ms Josephine Castillo)

Led by Ms Presca Lee Lugo and Ms Josephine Castillo, the benchmarking study will look further into education and training and certification of members, moreover by determining member/ participant of study.

- Funding is set for approximately $45,000 USD for benchmarking study. Suggestions and recommendations include:

  **Action items:**
  - Send an invitation for participation of bench marking study (to be sent)
  - Members should volunteer their information to be used in website
  - Follow up will be reviewed during the SC3 meeting

**Questions/Comments:** None

Established Timeline

- Host informed that timeline for next meeting should be discussed in 3 weeks’ time. (15 Feb 2019)
- WG1, WG2, WG3 should be discussed through online discussions, with prepared and drafted documents to be submitted to the 47th APEC TPTWG meeting on 23-26 April Vancouver, Canada.
- Manila Workshop set for 3-5 April 2019 in Manila at AMOSUP Headquarters.
- Apart from this, new concept notes will be discussed through online discussions by economies interested in and developed by the 15 February 2019.
Date of Next Meeting
- Proposal for the 3rd meeting of the SC (SC3) will take place on 15 February 2019, 09:00 Singapore Standard time via GoToMeeting. All members of the SC will be invited by e-mail.
  - (3-5 April 2019) 2nd APEC Strategy Planning Meeting Manila, Philippines
  - (23-26 April 2019) 47th APEC TPTWG Meeting Vancouver, Canada

Any Other Business
- Report of the meeting will be sent for clarification and drafting of concept notes.
- There were no further questions or remarks.
- Meeting was adjourned by Director Jin Hee Seo.

LIST OF ANNEXES

Annex A: Outstanding Actions:

<table>
<thead>
<tr>
<th>Meeting</th>
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<tbody>
<tr>
<td>SC2-1</td>
<td>WG 1 comments and suggestions should be directed to Dr Redzuan Zoolfakar at <a href="mailto:redzuan@unikl.edu.my">redzuan@unikl.edu.my</a> no later than 14 February 2019.</td>
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<tr>
<td>SC2-2</td>
<td>Suggestions are open to all economy members and can be emailed to Mr Wang Huanxin at <a href="mailto:wanghai@163.com">wanghai@163.com</a> no later than 14 February 2019.</td>
<td>By 14 February 2019</td>
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<td>SC2-3</td>
<td>Member economy participation declaration sent to Mr Wang Huanxin and or SENAP Secretariat - SENAP strategic development and management planning (Philippines; Malaysia) - Advancement of seafarers Health and Wellness through telemedicine at sea - SENAP onboard training (workshop) (Philippines; China; Malaysia)</td>
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<tr>
<td>SC2-4</td>
<td>Suggestions are open to all economy members and can be emailed to Capt Mohd Fahmi Niza at <a href="mailto:fahmi@smcmalaysia.com.my">fahmi@smcmalaysia.com.my</a> no later than 8 February 2019</td>
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<tr>
<td>SC2-5</td>
<td>Request for MOA between SENAP and MARINA (draft)</td>
<td>By 15, February 2019</td>
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<td>SC2-6</td>
<td>Itemized budget report for additional funds for Manila workshop</td>
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</tr>
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</tr>
<tr>
<td>SC2-7</td>
<td>Invitation for participation of benchmark study</td>
<td>By 15 February 2019</td>
</tr>
<tr>
<td>SC2-8</td>
<td>Invitation for participants of Manila workshop</td>
<td>By 03 March 2019</td>
</tr>
</tbody>
</table>

**Annex B: A List of Input Documents for SC 2**
- APEC SC2 Report
- Five-year Strategic Plan of SENAP (draft) for review
- ToR Part II 3.1 SENAP Steering Council Amended for review
- ToR Part II 3.2 SENAP Expert Group Amended for review
- TPTWG Strategic Work Plan 2018-2020
- ToR Part II 3.3 Secretariat Amended for review
2.3. SENAP Inter-sessional Working Group 3

**Conference Date:** 15 February 2019 (09:00 Singapore Standard Time)

**Participants**

<table>
<thead>
<tr>
<th>Attendee</th>
<th>Economy</th>
<th>Contact Info</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motohisa Abe</td>
<td>Japan</td>
<td></td>
</tr>
<tr>
<td>Yu Hongjiang</td>
<td>China</td>
<td><a href="mailto:yuhongjiang@msa.gov.cn">yuhongjiang@msa.gov.cn</a></td>
</tr>
<tr>
<td>Wang Huanxin</td>
<td>China</td>
<td><a href="mailto:wanghxdmu@163.com">wanghxdmu@163.com</a></td>
</tr>
<tr>
<td>Mohd Fahmi Niza</td>
<td>Malaysia</td>
<td><a href="mailto:fahmi@smemalaysia.com.my">fahmi@smemalaysia.com.my</a></td>
</tr>
<tr>
<td>Presca B. Lugo</td>
<td>Philippines</td>
<td><a href="mailto:pldb081412@gmail.com">pldb081412@gmail.com</a></td>
</tr>
<tr>
<td>Angelica Baylon</td>
<td>Philippines</td>
<td><a href="mailto:ambaylon@outlook.com">ambaylon@outlook.com</a></td>
</tr>
<tr>
<td>Yu-Ju Koo</td>
<td>Chinese Taipei</td>
<td><a href="mailto:yjkuo@motcmpb.gov.tw">yjkuo@motcmpb.gov.tw</a></td>
</tr>
<tr>
<td>Seunghee Choi</td>
<td>KIMFT</td>
<td><a href="mailto:seunghee.choi.1017@gmail.com">seunghee.choi.1017@gmail.com</a></td>
</tr>
<tr>
<td>Scott Seo</td>
<td>KIMFT</td>
<td><a href="mailto:scott.seob@gmail.com">scott.seob@gmail.com</a></td>
</tr>
<tr>
<td>Khoo Gek Hung</td>
<td>Singapore</td>
<td><a href="mailto:khoo_gek_hung@mpa.gov.sg">khoo_gek_hung@mpa.gov.sg</a></td>
</tr>
<tr>
<td>Larry Yim</td>
<td>SENAP secretariat office</td>
<td><a href="mailto:lyim53@gmail.com">lyim53@gmail.com</a></td>
</tr>
</tbody>
</table>

**Approval of the agenda**
- Host welcomed members of the Steering Committee (SC3) (International Liaison Officer Larry Yim of Korea Institute of Maritime Fisheries Technology KIMFT hosted the meeting).
- The agenda as attached to the invitation was approved.

**Report and Action Items of Previous Meetings**
The actions from last meeting were reviewed as outlined in Part 7: *Outstanding Actions* of SC1 report (ANNEX A). Status of outstanding reports have been updated. Current agenda items include Memorandum of Cooperation (MOC) between SENAP and MARINA, drafting of concept notes 1 (SENAP Strategic Development and Management Planning for Sustainable Future) and Concept note 2 (Onboard Training to Foster Competent Young Future Maritime Global Leaders)
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| SC2-3   | Member economy participation declaration sent to Mr Wang Huanxin and or SENAP Secretariat  
- SENAP strategic development and management planning (Philippines; Malaysia)  
- Advancement of seafarers Health and Wellness through telemedicine at sea  
- SENAP onboard training (workshop) (Philippines; China; Malaysia) | By 07 Feb 2019     | Ongoing |
| SC2-4   | Suggestions are open to all economy members and can be emailed to Capt Mohd Fahmi Niza at fahmi@smcmalaysia.com.my no later than 8 February 2019 | By 08 Feb 2019     | Complete |
| SC2-5   | Request for MOA between SENAP and MARINA (draft)                        | By 15 Feb 2019     | Ongoing |
| SC2-6   | Draft of concept note 1 & 2                                            | By 15 Feb 2019     | Ongoing |
| SC2-7   | Invitation for participants of Manila workshop                          | By 03 Mar 2019     | To be sent with SC 3 results |
Action items:
- Members of the committee are asked to draft following documents: ToR, 5-year strategic plan, New concept notes for 2019, SENAP online platform, Concept note 1 and Concept note 2

Questions/comments:
- None

SENAP Agenda
The Workshop Program was reviewed and discussed on the following agendas led by respective chairs of each working group. The agenda was approved as follows:

- (WG 1) Terms of Reference (Chair - Dr Redzuan Zoolfakar) (10 January 2019)
- (WG 2) New concept notes for the proposed plan (2019) and Strategic 5-year plan (2019-2023)
- (WG 3) Development of Online Portal (Dr Mohd Fahmi Niza)
- Workshop in Manila (Ms Presca Lee B. Lugo and Ms Josephine Castillo)
  - APEC Concept Note 1: Strategic Development and Management Planning for Sustainable Future (draft)
  - APEC Concept Note 2: SENAP Onboard Training to Foster Competent Young Future Maritime Global Leaders (draft)

- (WG 1) Terms of Reference (Chair - Dr Redzuan Zoolfakar)
  - Led by Dr Zoolfakar Terms of Reference (ToR) were amended (Part II 3.1 SENAP Steering Council, 3.2 SENAP Expert Group, 3.3 Secretariat) for additional input and approval.
  - Chair could not be in attendance for the SC 3 meeting but has updated Part I (Background), Part III (Funding). Part IV (Entry into Force) as an “as is” status as no further inputs were submitted as of 14, February 25. Further clarification and inputs will be discussed during the SC 4 meeting to take place via GoToMeeting (online) on Friday 8 March 2019, 9:00 am SST.

Action items:
- Members of SENAP are asked to review, add suggestions, and comment on ToR draft for final review during the Manila Workshop
- Suggestions are open to all economy members and can be emailed to Dr Redzuan Zoolfakar at redzuan@unikl.edu.my no later than 07 March 2019
- Comments and suggestions to change may also be found at the link below: https://docs.google.com/document/d/1hmNovX3YNB1SIFY-GnwpHv578PTkuL1453QlJVraXUM/edit?usp=sharing
- Follow up will be reviewed during the SC4 meeting
Questions/Comments: None

- **(WG 2) New Concept Notes for the Proposed Plan (2019) and Strategic 5-year plan (2019-2023)**
  - Led by the Chinese delegation Mr Wang Huanxin submitted a draft (SC2) in which contents include: The Introduction, Mission, Vision and Strategic Plan overview. Chair has amended the strategic plan for review.
  - Chair has updated New Concept note for Proposal Plan (2019) and Strategic 5-year plan (2019-2023) as an “as is” status as no further inputs were submitted as of 15, February 25. Further clarification and inputs will be discussed during the SC 4 meeting to take place via GoToMeeting (online) on Friday 8 March 2019, 9:00 am SST.

Action items:
- Members of SENAP are asked to review, add suggestions, and comment on New Concept Notes for Proposed Plan (2019) and Strategic 5- year plan (2019-2023) for final review during the Manila Workshop
- Suggestions are open to all economy members and can be emailed to Mr Wang Huanxin at wanghai.xmu@163.com no later than 08 March 2019
- Comments and suggestions to change may also be found at the link below: https://docs.google.com/document/d/1nV6jWhh9D7lxG2kx2lIDTutn1hy25IHC45RKO5HA7Uul/edit?usp=sharing
- Concept note open discussion and participant declaration to be emailed to Mr Wang Huanxin wanghai.xmu@163.com and or SENAP Secretariat k.maritimetraining@gmail.com no later than 07 February 2019.
  - SENAP strategic development and management planning (Philippines; Malaysia)
  - Advancement of seafarers Health and Wellness through telemedicine at sea
  - SENAP onboard training (workshop) (Philippines; China; Malaysia)
- Follow up will be reviewed during the SC4 meeting

Questions/Comments: No other questions or comments

- **(WG 3) Development of Online Portal (Dr Mohd Fahmi Niza)**
  - Led by Capt Mohd Fami Niza, the contract with online portal company was finalized on 17 January 2019. Contract with winning bidder EDINET. Chair exhibited several templates for future design of APEC SENAP website with recommendations of website to be aligned with contents on APEC website.
  - Further clarification and inputs will be discussed during the SC 4 meeting to take place via GoToMeeting (online) on Friday 8 March 2019, 9:00 am SST.
Action items:

- Members of SENAP are asked to review, add suggestions of content for final review during the Manila Workshop
- Suggestions are open to all economy members and can be emailed to Capt Mohd Fahmi Niza at fahmi@smemalaysia.com.my no later than 08 March 2019
- A preview page would be need by April during the Manila workshop
- Follow up will be reviewed during the SC4 meeting

Questions/Comments:

- A comment from member economy Peru had concerns of KIMFT logo and information on website design.
- Upon further clarification, bidder submitted several designs as a template and not as the official SENAP webpage.
- Question from member economy China inquired on the use of APEC/ SENAP logo.
- According to APEC regulations both logos must be used since funding is coming from APEC.
- Suggestions from the Philippines to list all economies (certification, maritime education etc.)

Workshop in Manila (Ms Presca Lee Lugo and Ms Josephine Castillo)

Chair informed that the 2nd APEC Strategy Planning Meeting will be held in Manila at AMOSUP Headquarters on 3-5 April 2019. Current budget stand at 500,000 pesos with additional funding to be approved after submission of itemized budget report.

Action items:

- Request for MOA between SENAP and MARINA. (draft to be sent)
- Participant list should be finalized at least 1 month prior to workshop. (3 March 2019)
- To cover airfare and accommodations an itemized budget report for funds above 500,000 PhP
- Update of list of events will be sent to Admiral Santos (AMOSUP)
- Follow up will be reviewed during the SC3 meeting

Questions/Comments: None

Concept Note 1: SENAP Strategic Development and Management Planning for Sustainable Future

Concept Note entitled as “SENAP Strategic Development and Management Planning for Sustainable Future” will look further into education and training and certification of members, moreover by determining member/ participant of study.
A draft of the concept note is to be completed and sent for review.

Member participation currently stand with (3) three-member economies: the Philippines; Malaysia; China.

More participants are encouraged to join the concept note.

**Action items:**
- Participation from all member economies encouraged
- Follow up will be reviewed during the SC4 meeting

**Questions/Comments:** None

**Concept Note 2: SENAP Onboard Training to Foster Competent Young Future Maritime Global Leaders**

Concept Note entitled as “SENAP Onboard Training to Foster Competent Young Future Maritime Global Leaders” will look further into education through use of cross border infrastructure, manpower and materials related to maritime training onboard.

- A draft of the concept note is to be completed and sent for review
- Member participation currently stand with (8) eight-member economies: China; Malaysia; the Philippines; Chinese Taipei; New Zealand; Thailand; and Viet Nam.
- More participants are encouraged to join the concept note.
- MAAP has a new training vessel and may be shared with MARINA and APEC-SENAP economies through an MOU signing and can be arranged in support to the project

**Action items:**
- Participation from all member economies encouraged
- Proposal of MAAP training vessel to be shared with MARINA and APEC-SENAP session to be added to the Manila Workshop.
- Follow up will be reviewed during the SC4 meeting

**Questions/Comments:**
- Proposal to share shipboard training record book to adopt in use of shipboard training record book.
- Additional comments may be found on draft of Concept Note 2

**Established Timeline**
- Host informed that timeline for next meeting should be discussed in 3 weeks’ time. (08 March 2019)
- WG1, WG2, WG3 should be discussed through online discussions, with prepared and drafted documents to be submitted to the 47th APEC TPTWG meeting on 23-26 April Vancouver, Canada.
- Manila Workshop set for 3-5 April 2019 in Manila at AMOSUP Headquarters.
Apart from this, new concept notes will be discussed through online discussions by economies interested in and developed by the 08 March 2019.

**Date of Next Meeting**
- Proposal for the 3rd meeting of the SC (SC3) will take place on 08 March 2019, 09:00 Singapore Standard time via GoToMeeting. All members of the SC will be invited by e-mail
  - (3-5 April 2019) 2nd APEC Strategy Planning Meeting Manila, Philippines
  - (23-26 April 2019) 47th APEC TPTWG Meeting Vancouver, Canada

**Any Other Business**
- Report of the meeting will be sent for clarification and drafting of concept notes
- There were no further questions or remarks
- Meeting was adjourned by Host

**List of Annexes**

**Annex A: Outstanding Actions:**

<table>
<thead>
<tr>
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<td>SC2-6</td>
<td>Draft of concept note 1 &amp; 2</td>
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**Annex B: A List of Input Documents for SC 3**
- APEC SC3 Report
- Five-year Strategic Plan of SENAP (draft) for review
- ToR Part II 3.1 SENAP Steering Council Amended for review
- ToR Part II 3.2 SENAP Expert Group Amended for review
- TPTWG Strategic Work Plan 2018-2020
- ToR Part II 3.3 Secretariat Amended for review
- APEC Concept Note 1: Strategic Development and Management Planning for Sustainable Future (draft)
- APEC Concept Note 2: SENAP Onboard Training to Foster Competent Young Future Maritime Global Leaders (draft)

**2.4. SENAP Inter-sessional Working Group 4**
**Conference Date**: 08 March 2019 (09:00 Singapore Standard Time)

**Report and Action Items of Previous Meetings**

The actions from last meeting were reviewed as outlined in Part 7: *Outstanding Actions* of SC1 report (ANNEX A). Status of outstanding reports have been updated.

Current agenda items include Memorandum of Cooperation (MOC) between SENAP and MARINA, drafting of concept notes 1 (SENAP Strategic Development and Management Planning for Sustainable Future) and Concept note 2 (Onboard Training to Foster Competent Young Future Maritime Global Leaders)

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<td>SC2-4</td>
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<tr>
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**Approval of the agenda**

The Workshop Program was reviewed and discussed on the following agendas led by respective chairs of each working group. The agenda was approved as follows:

- (WG 1) Terms of Reference (Chair - Dr Redzuan Zoolfakar)
- (WG 2) Strategic 5-year plan (2019-2023) (Prof. Wang Huanxin)
- (WG 3) Development of Online Portal (Dr Mohd Fahmi Niza)
- New Concept Note #1
- New Concept Note #2
- Future contribution of economies
- Workshop in Manila (Ms Presca Lee Lugo and Ms Josephine Castillo, Harold Tarun)

**WG 1: Terms of Reference (Chair - Dr Redzuan Zoolfakar)**

- Led by Dr Zoolfakar Terms of Reference (ToR) were amended (Part II 3.1 SENAP Steering Council, 3.2 SENAP Expert Group, 3.3 Secretariat) for additional input and approval.

  - Currently listed as “as is” status as no further inputs were submitted as of 14, February 25. Further clarification and inputs will be discussed during the SC 4 meeting to take place via GoToMeeting (online) on Friday 8 March 2019, 9:00 am SST.
  
  - Suggestions are open to all economy members and can be emailed to Dr Redzuan Zoolfakar at redzuan@unikl.edu.my no later than 07 March 2019
  
  - Comments and suggestions to change may also be found at the link below: https://docs.google.com/document/d/1hmNovX3YNB1SIFY-GnpwHv578PTkuL1453QlJVraXUM/edit?usp=sharing

  - Follow up will be reviewed during the SC4 meeting

**Questions/Comments:** None
● (WG 2) New Concept Notes for the Proposed Plan (2019) and Strategic 5-year plan (2019-2023)
  - Led by the Chinese delegation Mr Wang Huanxin submitted a draft (SC2) in which contents include: The Introduction, Mission, Vision and Strategic Plan overview. Chair has amended the strategic plan for review.
  
  - Chair has updated New Concept note for Proposal Plan (2019) and Strategic 5-year plan (2019-2023) as an “as is” status as no further inputs were submitted as of 15, February 25. Further clarification and inputs will be discussed during the SC 4 meeting to take place via GoToMeeting (online) on Friday 8 March 2019, 9:00 am SST.

Action items:
- Members of SENAP are asked to review, add suggestions, and comment on New Concept Notes for Proposed Plan (2019) and Strategic 5- year plan (2019-2023) for final review during the Manila Workshop
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  1) SENAP strategic development and management planning (the Philippines; Malaysia)
  2) Advancement of seafarers Health and Wellness through telemedicine at sea
  3) SENAP onboard training (workshop) (the Philippines; China; Malaysia)
- Follow up will be reviewed during the SC4 meeting

● (WG 3) Development of Online Portal (Dr Mohd Fahmi Niza)
  - Led by Capt Mohd Fami Niza, the contract with online portal company was finalized on 17 January 2019. Contract with winning bidder EDINET. Chair exhibited several templates for future design of APEC SENAP website with recommendations of website to be aligned with contents on APEC website.
  
  - Further clarification and inputs will be discussed during the SC 4 meeting to take place via GoToMeeting (online) on Friday 8 March 2019, 9:00 am SST.

Action items:
- Members of SENAP are asked to review, add suggestions of content for final review during the Manila Workshop
 Suggestions are open to all economy members and can be emailed to Capt Mohd Fahmi Niza at fahmi@smcmalaysia.com.my no later than 08 March 2019

A preview page would be need by April during the Manila workshop

Follow up will be reviewed during the SC4 meeting

Concept Note 1: SENAP Strategic Development and Management Planning for Sustainable Future

Concept Note entitled as “SENAP Strategic Development and Management Planning for Sustainable Future” will look further into education and training and certification of members, moreover by determining member/ participant of study.

- A draft of the concept note is to be completed and sent for review
- Member participation currently stand with (3) three-member economies: the Philippines; Malaysia; China.
- More participants are encouraged to join the concept note

Concept Note 2: SENAP Onboard Training to Foster Competent Young Future Maritime Global Leaders

Concept Note entitled as “SENAP Onboard Training to Foster Competent Young Future Maritime Global Leaders” will look further into education through use of cross border infrastructure, manpower and materials related to maritime training onboard.

- A draft of the concept note is to be completed and sent for review
- Member participation currently stand with (8) eight-member economies: China; Malaysia; the Philippines; Chinese Taipei; New Zealand; Thailand; Viet Nam.
- More participants are encouraged to join the concept note.
- MAAP has a new training vessel and may be shared with MARINA and APEC - SENAP economies through an MOU signing and can be arranged in support to the project

Future Contribution of Economies (WG 4)

Current plans to have an additional working group set for the Manila workshop for the planning of future contributions of economies for the advancement of seafarers’ welfare and the sustainability of SENAP.

Manila Workshop

Workshop in Manila (Ms Presca Lee Lugo, Ms Josephine Castillo, Harold G. Tarun) informed that the 2nd APEC Strategy Planning Meeting will be held in Manila at AMOSUP Headquarters
on 3-5 April 2019. Current budget stand at 500,000 pesos with additional funding to be approved after submission of itemized budget report.

**Action items:**
- Request for MOA between SENAP and MARINA. (draft to be sent)
- Participant list should be finalized at least 1 month prior to workshop. (3 March 2019)

**Questions/comments:** None

**Established Timeline**
- Host informed that timeline for next meeting should be discussed in 3 weeks’ time. (08 March 2019)
- WG1, WG2, WG3 should be discussed through online discussions, with prepared and drafted documents to be submitted to the 47th APEC TPTWG meeting on 23-26 April Vancouver, Canada.
- Manila Workshop set for 3-5 April 2019 in Manila at AMOSUP Headquarters.
- Apart from this, new concept notes will be discussed through online discussions by economies interested in and developed by the 08 March 2019.

**Date of Next Meeting**
- (3-5 April 2019) 2\textsuperscript{nd} APEC Strategy Planning Meeting Manila, Philippines
- (23-26 April 2019) 47\textsuperscript{th} APEC TPTWG Meeting Vancouver, Canada

**List of Annexes**

**Annex A: Outstanding Actions:**

<table>
<thead>
<tr>
<th>Meeting</th>
<th>Action</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC2-1</td>
<td>WG 1 comments and suggestions should be directed to Dr Redzuan Zoolfakar at <a href="mailto:redzuan@unikl.edu.my">redzuan@unikl.edu.my</a> no later than 14 February 2019.</td>
<td>By 08 March 2019</td>
</tr>
<tr>
<td>SC2-2</td>
<td>Suggestions are open to all economy members and can be emailed to Mr Wang Huanxin at <a href="mailto:wanghxdmu@163.com">wanghxdmu@163.com</a> no later than 14 February 2019.</td>
<td>By 08 March 2019</td>
</tr>
<tr>
<td>SC2-3</td>
<td>Member economy participation declaration sent to Mr Wang Huanxin and or SENAP Secretariat SENAP strategic development and management planning (Philippines; Malaysia) Advancement of seafarers Health and Wellness through telemedicine at sea</td>
<td>By 08 March 2019</td>
</tr>
<tr>
<td>Meeting</td>
<td>Action</td>
<td>Date</td>
</tr>
<tr>
<td>---------</td>
<td>------------------------------------------------------------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td></td>
<td>SENAP onboard training (workshop) (Philippines; China; Malaysia)</td>
<td></td>
</tr>
<tr>
<td>SC2-4</td>
<td>Suggestions are open to all economy members and can be emailed to Capt Mohd Fahmi Niza at <a href="mailto:fahmi@smcmalaysia.com.my">fahmi@smcmalaysia.com.my</a> no later than 8 February 2019</td>
<td>By 08 March 2019</td>
</tr>
<tr>
<td>SC2-5</td>
<td>Request for MOA between SENAP and MARINA (draft)</td>
<td>On going</td>
</tr>
<tr>
<td>SC2-6</td>
<td>Draft of concept note 1 &amp; 2</td>
<td>By 15 Feb 2019</td>
</tr>
<tr>
<td>SC2-7</td>
<td>Invitation for participation of bench marking study</td>
<td>By 15 Feb 2019</td>
</tr>
<tr>
<td>SC2-8</td>
<td>Invitation for participants of Manila workshop</td>
<td>By 03 Mar 2019</td>
</tr>
</tbody>
</table>

**Annex B: A List of Input Documents for SC 1**
- APEC SC3 Report
- Five-year Strategic Plan of SENAP (draft) for review
- ToR Part II 3.1 SENAP Steering Council Amended for review
- ToR Part II 3.2 SENAP Expert Group Amended for review
- TPTWG Strategic Work Plan 2018-2020
- ToR Part II 3.3 Secretariat Amended for review
- APEC Concept Note 1: Strategic Development and Management Planning for Sustainable Future (draft)
- APEC Concept Note 2: SENAP Onboard Training to Foster Competent Young Future Maritime Global Leaders (draft)
- 2019 APEC- SENAP Strategy Planning Meeting Invitation Letter Manila, Philippines
CHAPTER 7
SENAP Strategic Management Plan

1. Introduction

A final report on SENAP (now called as SEN) Strategic Management Plan along with Terms of Reference has been produced with the following details: a comprehensive short and long-term plan, which encompasses SENAPs mission, visions and strategies with a systematic coordination in terms of management, operations, a series of future activities and their processes seeking excellence in alignment of resources.

2. Terms of Reference

APEC Seafarers Excellence Network (APEC SEN)

- Terms of Reference –

PART I
Background

Occupying approximately 60% of the total seafaring workforce worldwide, our seafarers in APEC region play a critical role in the international shipping industry. From this perspective, it is evident that their capabilities as key maritime professionals are directly linked to the sustainable future growth and prosperity of APEC economies, keeping in mind that more than 90% of all international commerce is realized by way of ships whilst seafarers operating the ships are at the heart of all transactions. It is expected that its importance will greatly be accentuated in the years to come at least for the next three decades. Meanwhile, the recent emergence of autonomous vessels has also been a cause for concern. The focus to address this matter urges mutual cooperation on establishing a support system for our seafarers to proactively react to the rapid changes and further take this opportunity as another step of developing their career paths in the digital age with an in-depth knowledge and experiences that they have accumulated at sea.

In order to address these issues by designing and implementing innovative strategies and practical activities for seafarers in a diverse spectrum through a closely interconnected mutual cooperation within APEC, the discussion of the establishment of Seafarer Excellence Network (SEN) was first initiated in 2017 APEC seminar on Enhancing Global Capacity Building of Seafarers in the APEC Region (TPT 02 2017S). It has since developed into a more practical and in-depth discussion, and continues into 2018 Strategy Planning Meeting for APEC Maritime Capacity Building, which has become a significant milestone by generating SENAP Busan declaration (specified in Section 2), which demonstrates our dedication and future commitment for nurturing a highly-educated, well-qualified, and efficient maritime workforce, and further officially proposing the Establishment of SENAP to APEC, under a strong leadership and guidance spearheaded by Korea and the overwhelming support of 11 participating economies (i.e. China; Indonesia; Malaysia; Papua New Guinea; Peru; the Philippines; Chinese Taipei; Thailand; the United States; and Viet Nam). As an initiative of Maritime Expert Group (MEG), this
has been endorsed by Transportation Working Group and approved by APEC (TPT 02 2018A), and commenced its official operation on August 2018 with the opening of the secretariat office at Korea Institute of Maritime and Fisheries Technology, Busan, Republic of Korea.

**Mission Statement: SENAP Busan Declaration**

We, the Seafarer Excellence Network of the Asia Pacific (SENAP)*, recognize the need to provide a highly educated, well-qualified, and efficient maritime workforce that maintains the highest standard of the professionalism, ethical conduct, and commitment to excellence. In doing so, we will share a comprehensive set of resources and best practices for professional development opportunities in the most efficient and cost-effective manner, in cooperation with APEC economies, industry, academia, and related entities. These actions will meet the immediate and future demands of the global maritime community and result in a high quality of work-life balance onboard and ashore for seafarers.

1 March 2018, Korea Institute of Maritime and Fisheries Technology

*changed to APEC SEN (Manila Amendment on 4 April 2019)*

**Goals of APEC SEN**

As an inclusive, high-quality one-stop online portal and offline network, APEC SEN will meet the demands of the current and emerging needs of the shipping industry and seafarers of the APEC region with the following focuses on:

- strengthening employability through online and offline maritime education and training;
- attaining better welfare by providing collaborative supports;
- re-training for job transitions in the digital age to come; and thereby;
- ensuring a high degree of work-life balance on-board vessels as well as ashore.

**APEC SEN under APEC Connectivity Blueprint 2015-2025**

This APEC SEN strongly supports and is exactly aligned with the APEC Connectivity Blueprint for 2015–2025 on enhancing physical, institutional and people-to-people connectivity which primarily benefits all seafaring economies with the following specific criteria:

- facilitating the movement of people across borders by encouraging the exchange of professional human resources for cross-border maritime education and training;
- sharing and best utilizing high-quality MET infrastructures, manpower, funding and time maximizing resource effectiveness;
- transferring information and best practices for ensuring seafarers’ high degree of work life balance including key issues such as welfare, career development and job transition for all levels of the maritime community;
- strengthening seafarers’ employability for promoting skilled labor mobility; and
• exchanging policy dialogues for enhancing procedural cooperation and interaction, and further harmonizing seafarer-related policy and regulations across APEC.

PART II

With the concrete mission and goals under APEC umbrella as clearly stated above, the terms of reference for the establishment, functions, and operation of the APEC SEN is hereby mandated and agreed as followings:

Establishment of APEC SEN

A. The office of the APEC Seafarer Excellence Network (APEC SEN) will be headquartered in Busan hosted by Korea Institute of Maritime and Fisheries Technology (KIMFT) under the Ministry of Oceans and Fisheries, Republic of Korea.
B. KIMFT will provide operational funding to support office and personnel.
C. The APEC guidelines, regulations and established practices should fully comply with the management and operation of APEC SEN.
D. The APEC nomenclature should be observed in all proceedings, activities, and outputs of APEC SEN, including working papers, conference documents, reports, books, brochures and newsletters, etc. in electronic or hard copy form.

Roles of APEC SEN Office

As a center of this cooperative network, the APEC SEN office will assume the leading role in the management and overall operations of the activities such as:

• maintenance and/or dissemination of any APEC SEN outputs such as reports, manuals, databases or resources;
• report of its work plans, programs, activities, initiatives and outcomes to TPTWG on a regular basis under the guidance and supervision of TPTWG;
• the organization of follow up workshops and meetings;
• transfer of knowledge and best practices both online and offline;
• use of results or outcomes in future projects from APEC TPTWG, HRDWG and OFWG or non-APEC fora by actively gathering opinions from participating economies, with approval from TPTWG by written notice.

Structure of APEC SEN

The APEC SEN includes the following within its organization:

• Steering Council
• Expert Groups
  1) Maritime Education and Training
  2) Recruitment, Career Development, and Job Transition
  3) Seafarers’ Better Welfare
• Secretariat located in Busan, RoK
  1) APEC SEN Collaboration Center
• Associates of APEC SEN

APEC SEN Steering Council

A. The Steering Council is the governing body of APEC SEN entrusted to coordinate the initiative and makes recommendations to the overall progress of APEC SEN work on developing its initiative and work plan on ways to strengthen coordination on seafarers-related issues.

B. This Steering Council will comprise of representatives of APEC member economies.

C. The Steering Council Meeting will be held once a year to coordinate, discuss progress, and explore synergies and complementarities of the APEC SEN initiative. Meetings will be arranged so as to minimize costs and maximize member participation. The Council will conduct inter-sessional work through electronic means.

D. The Steering Council is led by the Chair. The Chair of the council is elected among representatives of APEC member economies for a three-year term, unless extended with a maximum of six years. The election is by secret ballot or show of hands. (each economy is allowed only one (1) vote.) In the event of an equal vote, the Chair shall have a second casting vote.

E. The Council Chair of APEC SEN must be very well versed to issues related with the maritime industry in order to achieve the goals.

F. The duties of the Council Chair of APEC SEN includes, but are not limited to:
   • Coordinate the schedule and chair APEC SEN Steering Council;
   • Foster constructive and active dialogue at APEC SEN meetings;
   • Lead the implementation of the action programs and other activities to fulfill instructions given by APEC Leaders, Ministers and Senior Officials and report to Senior Officials on the development of these issues;
   • Coordinate the development of a medium- and long-term strategic plan aligned with the overall objectives of APEC SEN;
   • Ensure the timely submission of annual work plans to the first TPTWG meeting of each year;
   • Oversee the development of activities ensuring that the APEC SENs work is responding to Leaders’ and Ministers’ priorities;
   • Liaise with the APEC Secretariat, other APEC fora and international organizations to enhance the quality of activities, including project proposals with well-defined outcomes, and track the progress of project implementation.

APEC SEN Expert Groups

A. Expert Groups are the practical mechanism of APEC SEN where all stakeholders within APEC economies collaborate through online platform and offline network in order to achieve specified goals, which are established in the seafarers-specific domains.

B. The Group will comprise of officials and experts from authorities, universities, public and/or private sectors with maritime related activities nominated by the economies. The Group encourages non-members and private sector participation and cooperation in their activities, including representatives of non-member economies, international and regional maritime organizations, civil society and
the private sector to participate in its work in accordance with the APEC Guidelines on Managing Cooperation with Non-members.

C. The Group will have a Chair and Vice Chair, which is appointed by a consensus within each Group for a three-year term (calendar years), on a rotation basis. They will collaborate with other APEC expert groups and endeavor to develop projects that will address APEC SEN objectives in alignment with APEC priorities.

D. The Chair and Vice Chair must be very well versed with the issues related to the given task. In the absence of Chair, during a meeting, the Vice Chair shall automatically preside as Chair. A temporary Vice Chair shall be appointed.

E. Each Group will meet at least annually, with meetings arranged in such a way which minimizes resource costs and maximizes member participation. The work of the APEC SEN Expert Groups will, wherever possible, be carried out via electronic communications inter-sessionally.

F. Tasks to advance the Expert Group’s mandate and work plans will be determined in consultation with the APEC SENs Steering Council Chair and members at the beginning of each year and as needed.

G. The initiatives of each Expert Group will be pursued along three broad focuses, but not limited to:

- **Maritime Education and Training**
  - Co-develop major MET programs within APEC to enhance seafarers’ capacity;
  - Enhance seafarer’s competency through high quality and standardized MET courses;
  - Establish provision of varied train-the-trainer MET courses to improve instructors’ capacity and designate them as APEC-accredited instructors;
  - Facilitate lifelong distance learning by sharing an online platform within APEC economies to better support seafarers’ education and training both onboard and ashore;
  - Promote and provide opportunities for the exchange of views amongst members of APEC SEN and others on professional maritime-related topics;
  - Come out with initiatives to solve ship berth among cadets.

- **Recruitment, Career Development, and Job Transition**
  - Develop an interconnected online platform between career development and lifelong learning for seafarers to identify what qualifications are required for further professional development and job transition and, on that basis, take relevant courses and certificates into a relevant maritime industry and a step-by-step guideline for each career path
  - Support women seafarers by assisting in their successful job entry into the shipping market and expanding their professional scope in the maritime field in the future through a broad spectrum of APEC-led activities
  - Encourage connection between international shipping companies and well-qualified APEC seafarers for the promotion of their job entry into the global shipping market
  - Provide an APEC career plan and development information sharing platform for seafarers
- Arrange a regular workshop and seminar for seafarers’ job entry into another field in a relevant maritime industry based on their seafaring expertise onboard the ship
- Identify seafarers’ key competencies and provision of required education and training for job transition in the era of autonomous ships in the digital age to come
- Encourage young people to join the profession.

• Seafarers’ Better Welfare
  - Promote seafarers’ well-being;
  - Protect the rights, interests, and welfare of seafarers as per MLC 2006;
  - Promote the development of research-based policies and programs.

Secretariat

APEC SEN secretariat team will include at least the following position(s) within its organization:

- Secretary General (President of KIMFT / on ex officio capacity)
  * changed to APEC SEN until such time APEC SEN is self-sustaining a Secretary General may be selected/elected

- APEC SEN Collaboration Center
  - Executive Director
  - Program Manager
  - Administrative Staff

Secretary General

APEC SEN secretariat Team will include the following within its organization:

The Secretary-General (SG) is the chief administrative officer of the APEC SEN organization and is responsible for its office leadership and giving direction and clarity to the organization’s strategic and policy development.

The priorities for the SG is to raise the profile of the organization to attract investment for programs development and delivery, by developing local and international business partnerships with both private and public sectors and expanding the current membership base.

The SG of APEC SEN is responsible to the organization’s Steering Council for, but are not limited to:

- Advising Council on all aspects of the organization’s strategic development;
- Acting as the ambassador for the organization in meetings with leading figures in government, private industry and with development agencies;
- Managing the planning and delivery of the organization’s established programs and activities in the best interests of the organization and its members;
• Developing and securing funding for new projects of work in accordance with the organization’s relationships with its member-economies and sector members, with other international organizations and funding agencies, governments and businesses;
• Exercising financial control and budgetary management of the organization and its programs;
• Managing APEC SEN Secretariat at its Headquarters in Busan.

Executive Director

A. The Executive Director (ED) is the chief administrative officer of the APEC SEN organization and is responsible for the management and operation of the office.
B. The main responsibilities of the ED, but are not limited to:
   • Manage and implement the APEC SEN work plans and activities;
   • Lead and supervise APEC SEN projects and capacity building and activity programs, and monitor the synergies of programs’ outcomes through mutual cooperation among APEC SEN members;
   • Manage the operation of APEC SEN Secretariat Office in terms of staff, membership, budget, assets, and all other resources, in order to maximize the efficient and effective operations of the APEC SEN;
   • Attend the TPTWG, APEC SEN Steering Council, Expert Groups, and other related-meetings to report and update the progress of APEC SEN projects, activities and operations;
   • Disseminate newly updated information by promoting and facilitating knowledge transfer across APEC economies;
     - Annual reports
     - Training Materials
     - Specific research reports
     - Major event reports
     - Visiting specialists reports on outcomes/findings
     - Internship reports
     - Certified program reports
     - Journals; and
     - Newsletters.

Program Manager

A. Program Manager (PM) takes full responsibility of design, operation, and management of APEC SEN projects in close cooperation with Project Overseer (PO).
B. The main responsibilities of the PM, but are not limited to:
   • Research and develop a new APEC SEN project and propose to APEC TPTWG by creating a concept note seeking APEC funds, with particular attention to the BMC schedule;
   • Advise and guide Project Overseers, in cooperation with the TPTWG Chair and TPTWG Program Director, on project development and Quality Assessment Form (QAF) requirements;
   • Assess TPTWG project proposals in accordance with the Guidebook on APEC Projects and the QAF;
• Provide TPTWG members with an assessment of each proposal, including PO responses, to inform the ranking process;
• Provide comments on the evaluation reports submitted by the PO after the completion of the projects;
• Provide feedback to the TPTWG on general observations made during the assessment process to guide the submission of future projects;
• Organize and manage the details of the project, including the timing and venue of events, participants, and any contracting;
• Monitor the progress of the implementation of the project in line with the timeframes, budgets and methods and submit ‘a monitoring report’ to the APEC Secretariat on a regular basis;
• Upon the completion of the project, submit the project completion report to the APEC Secretariat with a close cooperation of PO.

**Administrative Staff**

A. Administrative staff (AS) will provide administrative and secretarial support to SG, ED, PM. In addition to data-entry, report-writing, filing, and scheduling. Other duties will include scheduling complex activities, meetings and events, thus, it required a strong English-language skill, including writing, grammar, and spelling.

B. The main responsibilities of the AS, but are not limited to:
   - Perform basic bookkeeping activities.
   - Plan meetings, conference arrange and manage meetings.
   - Take and distribute meeting minutes.
   - Maintain electronic and physical files.
   - Organize and provide documents, reports, and information.
   - Maintain and reorder office supplies.
   - Act as a liaison with APEC SEN members when directed.
   - Work independently and within a team on special projects, which could include presentations, mailings, or proofreading.

**Associates of APEC SEN**

A. The Associates of APEC SEN provides strategic and operational guidance to the APEC SEN with a view to ensure the APEC SEN operates in line with the mandate and priorities of TPTWG

B. The Associates of APEC SEN are composed of officials and experts from academia, public and/or private sectors with maritime related activities that show interest in the APEC SEN projects.

C. APEC SEN offers hospitality to the Associates of APEC SEN as an invited specialist, as follows:
   - The Associates of APEC SEN will undertake and engage in APEC SEN research and projects for a contracted period of time as approved by the APEC SEN Steering Council;
   - A member economy and/or organization will be responsible for the direct costs of their officials and/or experts;
   - The APEC SEN will offer all possible assistance in terms of the provision of desk space, library access and letters of invitation.
PART III

1. Funding

The APEC SEN receive funding from the following sources, where appropriate:

- Funding for short- and long-term projects via APEC;
- Contributions from APEC economies, industry, MET institutions, unions and other relevant entities;
- Resource generating APEC SEN programs
- Other contributions and donations

PART IV

1. Entry into Force

The present Terms of Reference comes into force upon the endorsement by the APEC SEN members and TPTWG.

3. APEC SEN 2019-2025 Strategic Plan

3.1. Introduction

The APEC Seafarer Excellence Network (APEC SEN) was first initiated in 2017 APEC seminar on Enhancing Global Capacity Building of Seafarers in the APEC Region (TPT 02 2017S). It has since developed into a more practical and in-depth discussion, and continues into 2018 Strategy Planning Meeting for APEC Maritime Capacity Building, which has become a significant milestone by generating SENAP Busan declaration (specified in Mission Statement), which demonstrates our dedication and future commitment for nurturing a highly-educated, well-qualified, and efficient maritime workforce, and further officially proposing the Establishment of SEN under APEC. As an initiative of the Maritime Expert Group (MEG), it has been endorsed by Transportation Working Group and approved by APEC (TPT 02 2018A), and commenced its official operation on August 2018 with the opening of the secretariat office at Korea Institute of Maritime and Fisheries Technology, Busan, Republic of Korea.

3.2. Mission Statement

We, the Seafarer Excellence Network of the Asia Pacific (SENAP)*, recognize the need to provide a highly educated, well-qualified, and efficient maritime workforce that maintains the highest standard of the professionalism, ethical conduct, and commitment to excellence. In doing so, we will share a comprehensive set of resources and best practices for professional development opportunities in the most efficient and cost-effective manner, in cooperation with APEC economies, industry, academia, and related entities. These actions will meet the immediate and future demands of the global maritime community and result in a high quality of work-life balance onboard and ashore for seafarers.

1 March 2018, Korea Institute of Maritime and Fisheries Technology

* changed to APEC SEN (Manila Amendment on 4 April 2019)
3.3. Critical Success Factors

- Facilitating the movement of people across borders by encouraging the exchange of professional human resources for cross-border maritime education and training;
- Sharing and best utilizing high-quality MET infrastructures, manpower, funding and time maximizing resource effectiveness;
- Strengthening seafarers’ employability for promoting skilled labor mobility; and
- Exchanging policy dialogues for enhancing procedural cooperation and interaction, and further harmonizing seafarer-related policy and regulations across APEC.

3.4. Priority Areas and Objective

As an inclusive, high-quality one-stop online portal and offline network, APEC SEN will meet the demands of the current and emerging needs of the shipping industry and seafarers of the APEC region with the following focuses on:

- **Maritime Education and Training**: strengthening employability through online and offline maritime education and training;
- **Seafarers’ Better Welfare**: attaining better welfare by providing collaborative supports;
- **Recruitment, Career Development, and Job Transition**: re-training for job transitions in the digital age to come.

<table>
<thead>
<tr>
<th>S/N</th>
<th>Priority Area</th>
<th>Objectives</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Maritime Education and Training</td>
<td>- Co-develop major MET programs within APEC to enhance seafarers’ capacity &lt;br&gt;- Enhance seafarer’s competency through high quality and standardized MET courses.&lt;br&gt;- Establish provision of varied train-the-trainer MET courses to improve instructors’ capacity and designate them as APEC-accredited instructors&lt;br&gt;- Facilitating lifelong distance learning by sharing an online platform within APEC economies to better support seafarers’ education and training both onboard and ashore&lt;br&gt;- Promote and provide opportunities for the exchange of views amongst members of APEC SEN and others on professional maritime-related topics.&lt;br&gt;- Come out with initiative to solve ship berth among cadets.</td>
</tr>
<tr>
<td>2</td>
<td>Seafarers’ Better Welfare</td>
<td>- Promote seafarers’ well-being &lt;br&gt;- Protect the rights, interests and welfare of seafarers &lt;br&gt;- Promote development of research-based policies and programs.</td>
</tr>
</tbody>
</table>
3.5. Implementation Schedule

SENAP will take a holistic and committed approach to implementing the priority areas in this Strategic Plan. APEC economies, with the support of the APEC secretariat will work together and with relevant partners to develop a schedule of activities for the seven years, between 2019 and 2025 to achieve the objectives of the Strategic Plan. The detailed implementation schedule is appended to this Strategic Plan and will be updated annually, in line with the TPTWG-MEGs annual Work Plan.

3.6. SENAP Project Development and Ranking

SENAP project proposals should focus on initiatives and activities that will enable APEC member economies to achieve the priorities and objectives of this Strategic Plan. Project proposals that have a direct link to the priorities of the Strategic Plan will be given a higher score by the SENAP members.

3.7. Review of Strategic Plan

The TPTWG-MEG will monitor the implementation of the Strategic Plan and track the KPIs on an annual basis. A mid-term review will be prepared and reported by the Chair of the SENAP annually. A final review of the Strategic Plan 2019-2025 will be presented to APEC TPTWG in 2025.
### Maritime Education and Training

<table>
<thead>
<tr>
<th>Priority Area</th>
<th>Objective</th>
<th>Activities</th>
<th>Member Economies</th>
</tr>
</thead>
</table>
| Curriculum Development   | • design and develop structure of the MET courses in accordance with the STCW and relevant IMO recommendations. | • Design and development of IMO STCW and other new skill courses  
• to harmonize the requirements of education and training among the APEC SEN i.e. Training Record Book. | China; Indonesia; Malaysia; Philippines; Papua New Guinea; Republic of Korea; Thailand; Viet Nam |
| Teaching Method           | • enhance the existing programs related to different levels of MET | • to develop offline/online materials for different levels of MET i.e. Maritime English and shipboard training book.  
• to collaborate among the members of the APEC SEN for the shipboard training as well as to promote the ship owner to join the activity.  
• Focusing on how to deliver outcomes based (i.e. Train the trainers course)  
• Activities on research to determine competencies required for instructors |                                                                                                                  |
| Competency Assessment     | • harmonize assessment among the APEC SEN MET. | • to develop online question bank among the APEC SEN focus on the standards of STCW in all levels  
• create the online/mobile app assessment of the seafarer’ competence |                                                                                                                  |
<table>
<thead>
<tr>
<th>Priority Area</th>
<th>Objective</th>
<th>Activities</th>
<th>Member Economies</th>
</tr>
</thead>
</table>
| Quality healthcare                    | • Promote seafarers’ well-being  
|                                       | • Protect the rights, interests, and welfare of seafarers as per MLC 2006  
|                                       | • Promote development of research-based policies and programs.              | • Disseminate the welfare information through social media  
|                                       |                                                                           | • Add additional features to existing website of APEC SEN linking different organizations with mutual interests and concerns (e.g. ISWAN, Seafarers right re  
| Transit hub for cheaper cost         |                                                                           | • Conduct fund-raising activities for resource generation needed to promote welfare of the seafarers  
<p>| affiliated hotel among APEC          |                                                                           | • Provide the links for the different free e-learning materials available website (e.g. NI, IMAREST, GlobalMET, AMFUF)                                                                 |                  |
| economies                             |                                                                           |                                                                                                                                                                                                          |                  |</p>
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<thead>
<tr>
<th>Priority Area</th>
<th>Objective</th>
<th>Activities</th>
<th>Member Economies</th>
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<tbody>
<tr>
<td>Recruitment</td>
<td>• Identify career options to serve as guidelines in seafarers career pathing program&lt;br&gt;• Determine seafarers’ key competencies under the identified career options</td>
<td>• Development information - sharing platform (to accommodate career development plans provided by maritime institutes from APEC SEN members)&lt;br&gt;• To provide advice/guidance on recruitment best practices.&lt;br&gt;• To provide career plans and career pathways&lt;br&gt;• To encourage institutions/academies in conducting programs for seafarers&lt;br&gt;• APEC economies to provide support for the program</td>
<td></td>
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<td></td>
<td>• Encourage connection between international shipping companies and well-qualified APEC seafarers</td>
<td>• Provision of platform to accommodate job vacancies from ship-owners and job-searching seafarers</td>
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<td>• Develop policies encouraging APEC economies to implement resolution 14 of STCW convention 1970 as amended in 2010 (i.e. promotion of the participation of women in maritime industry)</td>
<td>• Promotion of Gender, Equal employment environment in maritime industry</td>
<td></td>
</tr>
<tr>
<td>Career Development</td>
<td>• Determine seafarers’ key competencies under the career options</td>
<td>• Curricular design to include computer language skills</td>
<td></td>
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<tr>
<td>Job Transition</td>
<td>• Encourage seafarers to pursue professional development program</td>
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Appendices

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List of Participants for Opening Ceremony of SENAP and 1st Workshop
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Appendix 2)

List of Participants for 2nd APEC SENAP Strategic Planning Meeting

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Appendix 3)

List of Participants for SENAP Webpage Usability test

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