Harmonization
Mobility of Engineers in Asia and the Pacific
Introduction

• “Mobility” - the movement of individuals or groups from place to place, job to job, or one social or economic level to another.

• “Harmonization” - Adjustment of differences and inconsistencies among different measurements, methods, procedures, schedules, specifications, or systems to make them uniform or mutually compatible.

• Drivers – Globalization has driven the world economy growth exponentially and bringing the people closer.

• Engineers – To stay relevant with the economy contribute to the national development and the profession.
Overview

• Existing regional engineering organization and mobility agreement frame work in Asia and the Pacific

• Harmonization of mobility agreement frame work among the engineering organizations and recognition by the government and the industries
Regional Engineering Organization

• ASEAN Federation of Engineering Organization (AFEO)
• Federation of Engineering Institutions of Asia and the Pacific (FEIAP)
• Federation of Engineering Institutions of South and Central Asia (FEISCA)
• APEC Engineers* (Committee of Asia-Pacific Economic Cooperation Human Resources Development Working Group)
Regional Agreement

• Professional Competency
  • FEIAP Engineering Education Guidelines (2010)
  • Washington Accord (1989)

• Mobility
  • ASEAN Engineers Register (AFEO)(1998)
  • APEC Engineers Register (APEC) (2000)
  • ASEAN Chartered Professional Engineer (ASEAN MRA) (2007)
  • International Professional Engineers Agreement*
    (IPEA formerly EMF)(2001)
“Harmonization”

- Benchmarking engineering education standard and professional competency
- Recognition by the professional communities, industries and government agencies
- Employers will have an standard to benchmark the qualification and experiences
- Continuing Professional Development provides consistency in maintaining professional competency
- Demand of various disciplines of engineers becoming critical due to economic development, disaster response and climate mitigation has become a global challenge
Harmonization Framework

FEIAP
AFEO
APEC Engineers/IPEA
FEISCA
Competency Profiles

- Comprehend and apply universal knowledge
- Comprehend and apply local knowledge
- Problem analysis
- Design and development of solutions
- Evaluation
- Protection of society
- Legal and regulatory
- Ethics
- Manage engineering activities
- Communication
- Lifelong learning
- Judgement
- Responsibility for decisions
Mobility

• APEC Engineer agreement recognizing professional competence
  • (i) delivered and accredited in accordance with the best practice guidelines developed by FEIAP, or its predecessor, FEIEAP; or
  • (ii) an engineering degree accredited by an organization holding full membership of, and operating in accordance with the terms of, the Washington Accord; ............

• APEC Engineer assess engineers eligible for independent practice, who have gained a minimum of seven years experience since graduation, and spent at least two years in responsible charge of significant engineering work.
Mobility

- IPEA agreement recognizing professional competency
  - for Authorized Membership of the Agreement, if the organization accreditating engineering degrees in a jurisdiction holds signatory status of the Washington Accord
  - For Provisional Membership of the Agreement, if the practitioners have engineering qualifications, which are covered by the following:
    - a. an engineering degree programme at the appropriate level
      - (i) delivered and accredited in accordance with the best practice guidelines developed by the Federation of Engineering Institutions of Asia and the Pacific; or
      - (ii) listed in the Index compiled by the Federation Européenne d'Associations Nationales d'Ingénieurs (FEANI); or .........

- Other criteria similar to APEC Engineer
Recognition

• Professional standing “recognised” within the APEC region contributing to the globalisation of professional engineering services.

• Benefit to engineering firms that are providing services to other APEC economies

• Enhances employment opportunity and provide flexibility for engineers to work in the region

• Mobility has significant and positive effect on knowledge transfer and expediting the growth in economy of Asia and the Pacific
Questions & Answers