

REPORT ON the NFTC Two-day Training on Engineering Education

The NFTC 2-Day Training on Engineering Education was held on **April 28th, 2022** virtually on Zoom. The training was hosted by NPU-FEIAP “Belt and Road” Engineering Education Training Center (NFTC) and supported by China Association of Science and Technology (CAST). Speakers of this training are Ir. Lee Boon Chong, evaluation panel member of the FEIAP education system, and Ir. Chen Harn Shean, vice president in the Institution of Engineers, Malaysia. A total of 72 participants attended the training, with participants from China, Malaysia, Singapore, South Korea, Myanmar, Philippines, Pakistan, Nigeria, Cambodia, and Kenya etc.

Objectives of the training:

The objectives of the training are the following:


- 1) to explain professional competence development and assessment for engineers;
- 2) to discuss how the OB assessment helps you as a graduate engineer;
- 3) to have in-depth discussion with participants.

Ir. Lee Boon Chong first discussed professional competence development and assessment for engineers. He explained professional tracks and the role it plays. Ir. Lee mentioned the fundamental purpose of engineering education and the role of graduate engineers. Later, he introduced the definition of Professional Engineer (PE) and the requirement of professional competence. Ir. Lee also discussed the competency assessment.

Ir. Chen Harn Shean shared his knowledge regarding how the outcome-based competence assessment helps graduate engineers. He explained the requirement of academic and training for professional registration. He then introduced professional competencies profile and explained in detail. Ir. Chen also shared the process of planning future career with some personal experiences.

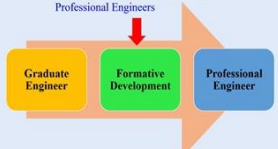
During the Q&A session, Ir. Lee and Ir. Chen answered questions including the implementing of PE in different countries. They also had discussion with participants. Some participants shared their experiences with speakers. All of them expressed their gratitude and presented their interest to join future trainings.

NFTC 正在发言: LEE Boon Chong



Formative Development

A process that Graduate Engineers must undergo before they become Professional Engineers



Assessment Rubrics – Example

One example of assessing the level of attainment in each competence element is given by the following rubrics.

| Level of Attainment | Generic Statement of Attainment |
|---------------------|-------------------------------------|
| 1 | Little or no evidence of competence |
| 2 | Some evidence of competence |
| 3 | Acceptable evidence of competence |
| 4 | Strong evidence of competence |

Apr 2021 - IBC Competence Desk & Assessment for Engineers 31

Apr 2021 - IBC Competence Desk & Assessment for Engineers 44


NFTC 正在发言: chen huan shean



ITEM'S OB PROFESSIONAL ASSESSMENT

CONSULTANCY- ENGINEER A

- ITEM'S OB Professional Competency profile is in line with the 13 IEA Professional Competency Profile
- Document submission:
 - Application Form
 - Professional Competency Profile (Training and Experience Report)
 - Technical/Project Report (Applicant's past engineering project design calculations, specifications and drawings)
- The Professional Interview consists of two parts:
 - The Oral Interview
 - The Written Examination (Essay Writing)

Participants in the meeting include:

- chen huan shean
- LEE Boon Chong
- Khin Maung Ht...
- Francis Wanjohi
- Mehmaye Chan
- Paul Ochola
- IRAMBONA The...
- Engr Htoon Hto...
- DUSHIMUMUKI...
- Jacqueline Niku...
- claver ngirabak...
- Mr Ye Linn
- Mei Kum Khaw
- Aungkyaw Soe
- Ms . Ei Phyu Sin...
- Mya Mya Mhway
- Daniel NDAYIS...

Visions and Objectives

NPU-FEIAP B&R Engineering Education Training Center (NFTC)

Visions

1. To have a unified and inclusive Engineering Education Standards which promotes mutual recognition of the Engineering Education Programs (Engineer, Engineering Technologist and Technician programs) among Economies in the B&R Initiative region and FEIAP member economies.
2. To facilitate and to promote mobility of the Engineers, Engineering Technologists and Technicians among the economies in B&R Initiative region and FEIAP member economies.
3. To provide continuous professional development to increase the number of competent Engineers, Engineering Technologists and Technicians who will help the economies to develop into developed nations
4. To promote understanding of civilization in B&R Initiative region and FEIAP member economies via cultivation of cultural intelligence in engineering education.
5. To promote students exchange programs among universities in the B&R Initiative region and FEIAP member economies.

Objectives

1. The NFTC is set up in NPU, Xi'an, China.
2. To conduct Engineering Education Accreditation Training (EEAT) based on established FEIAP Engineering Education Guidelines, FIEAP Engineering Technologist and Technician Education Guidelines
3. The Engineering Education Accreditation Training (EEAT) will cover training of Assessors, Academics and Accreditation Agencies of the economies in the B&R Initiative region and FEIAP member economies.
4. To facilitate and promote of mutual recognition of Engineering Education Programs among the Universities in the B&R Initiative region and FEIAP member economies, which is keystone for the mobility of Engineering Personnel (e.g. Engineers, Engineering Technologists and Engineering Technicians)
5. To facilitate and promote students exchange program among the Universities in the B&R Initiative region and FEIAP member economies.
6. To facilitate and promote the mobility of engineering personnel (e.g. Engineer, Engineering Technologist and Technician) who has fulfilled the FEIAP Engineering Education Standards in the economies of the B&R Initiative region and FEIAP member

economies.

7. To conduct Professional Development courses for Infrastructure Development and Maintenance for the Engineers, Engineering Technologists and Technicians.
8. To facilitate and promote the networking of the engineering personnel (e.g. Engineer, Engineering Technologist and Technician and Academics) to share knowledge, experiences, business opportunities and friendship for closer ties among the engineering fraternity in the economies of the B&R Initiative region and FEIAP member economies.
9. To improve and keep up to development of the world on the Engineering Education and Training to benefit the economies of the B&R Initiative region and FEIAP member economies.
10. To be a platform for exchange of academics and engineering students in B&R and FEIAP member economies.