

The Future of Online Learning Quality: Best Practices in Artificial Intelligence and Competency-Based Credentialing



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Micro-credentialing and its Impact on Engineering and Professional Development Standards

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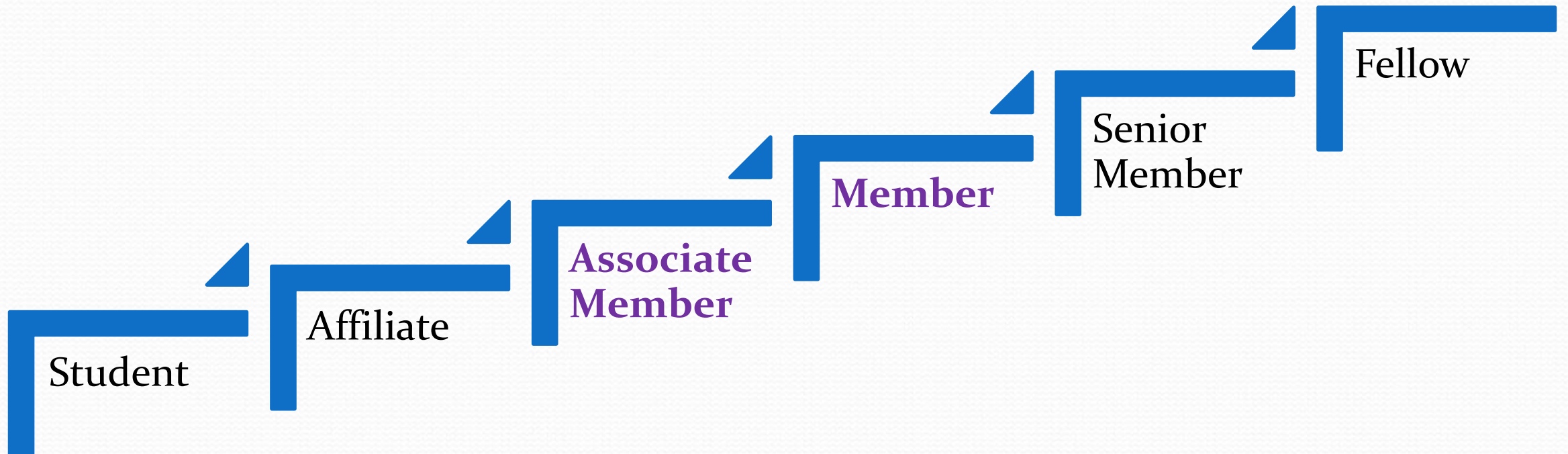
President (2020-2022)

The Association of Professional Engineers of Trinidad and Tobago

Agenda

- Engineering Membership
- Micro-credentialing
- Post Membership

Engineering Membership



Engineering Membership

❖ Associate Member –

- possess a **degree** from a University, or School of Engineering, or some equivalent qualification recognized by the Association.

❖ Member –

- i. possess the **qualification** as indicated above;
- ii. engaged in the **practice** of Professional Engineering and as an Engineer in the Society;
- iii. four years **experience** in engineering subsequent to obtaining the qualification;
- iv. mature route – candidates over the age of 40 years who do not possess the normal qualifications but who have **attained a level of competence** and have had **experience of increasing professional responsibility** for at least 15 years.

Engineering Membership

❖ Qualification

- BSc in Engineering is usually a three-to-four years course of study
- Two-thirds of programme usually completed at the Awarding Institutions
- Applicability of Micro Credentials for **Associate Membership**
 - They tend to be narrower in range than traditional qualifications.
 - Nanodegrees are mini-qualifications that demonstrate knowledge & competence in a given subject area.

Micro Credentials

❖ Post Membership

- Micro Credentials are **most applicable**
- Advances in Science, Information Technology, Legislations, Consumers rights
- **Continuous Learning** through Lifelong Learning

Micro Credentials

❖ Upgrade to Fellow

➤ Continuing Professional Development (CPD) -

- A requirement for all members of the APETT and Registered Engineers
- Most important aspect is the knowledge or skill which is acquired.

➤ Professional Development Unit (PDU) -

- Examined CPD - 1 PDU per hour of CPD
- Attendance-only CPD - 1 PDU for every 2 hours

Post Membership

❖ The Engineering Profession Act, 1985

- makes provision for the registration of Engineers in T&T
- there is no legal requirement that one must be a Registered Engineer to practise engineering in T&T.

❖ Registration of Engineers

- Applicants degrees are recognised and accredited
- Four years of engineering experience after graduation
- **Further Learning –**
 - Recognised Master's degree
 - Accumulation of academic knowledge with evidence of examination – **Micro credentials**
 - Show the applications of principles – **Competencies**

Thank
you