IVE | Engineering 工程

Professional Diploma in Innovative Industrial Engineering

[EG424733P]

Programme under Vplus Subsidy Scheme



Duration: 156 hours
(Can be completed normally within 1 year)

Needs of Programme

The innovative industrial engineering sector is poised to drive Hong Kong's economic growth; however, many experienced practitioners in manufacturing lack knowledge of smart technologies related to **Industry 4.0, AI, Big Data, Industrial Robot, and IIoT**. To address this skills gap, in-service training is essential for equipping practitioners with the necessary competencies for smart manufacturing, thereby advancing their careers. **The Professional Diploma in Innovative Industrial Engineering** is vital for preparing students for the rapidly evolving industrial landscape, which emphasizes automation, digitalization, and sustainability, in line with Hong Kong's Smart City Blueprint. To support this transition, the **New Industrialisation Funding Scheme (NIFS)** provides manufacturers with up to HK$15 million or one-third of project costs to establish smart production lines while offering subsidized talent training to overcome IoT and AI adoption barriers. Additionally, the **New Industrialisation Acceleration Scheme (NIAS)**, launched in September 2024, promotes technological advancement in mid-to-downstream processes like prototype development and pilot production. Together, these initiatives aim to position smart manufacturing as a key driver of economic growth by bridging technological gaps across the industrial value chain.

Programme Objectives

- The prorgramme provides learners with the skills and expertise in innovative industrial engineering, enabling them to grasp emerging technologies, such as **Industry 4.0, AI, Big Data, Industrial Robot, and IIoT**, and meet the demands of the rapidly evolving industry.
- The programme equips learners with a range of conceptual and technical skills that are essential for the development and implementation of smart manufacturing processes.

Learning Contents

- Digital Manufacturing and Industry 4.0 (26 hrs)
- IIoT Applications (26 hrs)
- Industrial Robotic Systems and Machine Vision (26 hrs)
- AI and Big Data in Industry (26 hrs)
- Production Planning and Control (26 hrs)
- Smart Design and Product (26 hrs)

Entry Requirements

- Five HKDSE subjects at Level 2 or above, including English and Chinese Languages, or equivalent, with one year's work experience; or
- Five HKCEE subjects at Grade E/Level 2 or above, including English and Chinese Languages, or equivalent, with two years' work experience; or
- Completion of a QF Level 3 programme, or equivalent, with one year's work experience or currently employed; or
- Relevant RPL qualification(s) at QF Level 3 or above; or
- 21 years old or above with 2 years relevant working experience, may be admitted subject to passing an interview and / or aptitude test, if necessary.

Class Venue

IVE (Tsing Yi), 20 Tsing Yi Road

Course Fee

HK$28,080 ***HK$11,232* (with Vplus Subsidy)***

*This course is an eligible programme under "Vplus Subsidy Scheme – Vplus Engineering". Under this scheme, successful applicaants will be refunded 60% of the paid tuition fees of eligible programmes, subject to a maximum of $45,000 per person.

Enquiries

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April 2025