

Professional Master Petroleum Facilities Engineering Technology

INTRODUCTION

Petroleum Facilities engineering technology is the facilities engineering technology that applicable to oil and gas industry to explore and extract petroleum from the earth economically and to process petroleum crude to finished products to customers. Petroleum subsurface engineering and Facilities engineering are the major area of the oil and gas industry. Petroleum Facilities engineering technology which include production facilities, refineries, chemical and petrochemical complexes are major processing facilities in the oil and gas industry. Constructing these upstream and downstream facilities require comprehensive understanding and experience in various engineering disciplines of the industry's stringent standard practice and codes. These company standard practices and engineering codes cover *feasibility study, engineering design, fabrication, construction, installation, commissioning* and maintenance of the facilities or Processing Plant.

Petroleum Facilities Engineering Technology is the technology management of technical know-how that are required to extract and process petroleum efficiently and effectively. This program pools together the knowledge and experience of seniors and petroleum professional from various engineering backgrounds responsible for the exploration, production and processing of the petroleum crude. These experienced personnel will share their expertise in a structured training program, which will boost participants' competency and confidence in their respective disciplines.

Although in house training, books and lectures cannot substitute actual working experiences, this program provides the participants with the fundamental skills, knowledge and understanding required for their career advancement in their preferred facilities engineering specialization management either based on discipline such project management, mechanical, petroleum economics, process, safety, mechanical, offshore structure, civil, electrical or based on project contracts such as fabrication, supplying or installation & commissioning.

The **Professional Master in Petroleum Facilities Engineering Technology** is designed for providing an opportunity to participants to:

- Advance their careers, or to provide new career path to any managerial positions either with oil producers, processing plant owners, oil & gas service companies, engineering consultants, fabricators, installation contractors, vendors or manufacturers,
- This program is designed specifically to produce engineering discipline managers, construction managers, project managers and CEOs of oil and gas companies

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WHO SHOULD ATTEND THIS PROGRAM?

- Fresh graduates who are interested to pursue their career in oil and gas industry
- Technical personnel who are interested to pursue their career in managerial level in oil and gas industries
- Managers in any industries who are interested to pursue their career in oil and gas industry
- Oil and gas non-technical personnel who are interested to become managers, Project Managers and Plant managers
- CEO and business owners who interested to build up his Job competencies in oil and gas industry
- Experience personnel who are interested to join oil and gas industry

OBJECTIVES

After completing this program, the participants will be able to:

- Perform as Project managers in project development either at consultants, fabricators, contractors or vendors or
- Perform as Engineering Managers role in field development, asset operation, maintenance and decommissioning or
- Perform as Manager at any Petroleum Facilities or
- Perform as Facilities Manager or discipline engineering manager as per their specialization preferred.

ENTRY REQUIREMENTS

- Degree in any disciplines with minimum 3.0 CGPA for fresh graduates or
- Degree in any disciplines with minimum 3 year working experience or
- Relevant Professional diploma holders with 10 years working experience
- Diploma in any disciplines with 15 years O&G experience

CERTIFICATE AWARDING BODY

This Professional Master is awarded by Octagon Petroleum Institute (OPI) complying to The Octagon Petroleum (TOP) University System which is equivalent to Malaysia Quality Assurance (MQA). This unique program is strictly comply with Octagon Petroleum Occupation Standards (OPOS) and Octagon Professional Skill Certification system at level 7.

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DURATION AND MODE OF PROGRAMME

- A *part-time program* - 12 modules and Final Design Project, 20 contact hours and to be completed in 12 to 24 months.
- *16 weeks per semester and 3 Semesters per year system (Intake February, June and October every year).*
- *Course Assessment*– Assessment based on Final Exam and the Post Module Assignments, Quizzes, case study papers and Final Project.
- *Lectures are compulsory. However, for distant Learning students have to complete a series of lectures via the net and submitted the post module quizzes.*
- *Lecture* - Conducted by facilitator and industry experts. Industrial experts are invited to present their respective field of expertise consistent with the program objectives. They are consist of:
 - a. Superintendent, Senior Engineers or specialists from oil services companies, design consultants, oil producers, plant owners, fabricators and technology specialist (Vendor)
 - b. Specialist engineers from manufacturers, consultants, oil and gas services companies or researchers

PETROLEUM FACILITIES ENGINEERING TECHNOLOGY MODULES

Petroleum Subsurface Engineering Modules

- Petroleum Engineering for Managers
- Petroleum Economics for Managers
- Petroleum Production & Processing Facilities

Facilities Engineering Modules

- Facilities Architecture Engineering & Operation Engineering
- Mechanical, Piping and Offshore Structure Engineering
- Petroleum Process Engineering
- Electrical and Instrumentation Control Engineering
- Facilities Fabrication, Construction, Installation, commissioning and Decom

Engineering Operation & Management Modules

- Quality, Health, Safety, Security, Environment & Social Responsibility
- Petroleum Business Operation and Administration
- Petroleum Project Development & Asset Management

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Final Project-Industry Competency Specialization (Choose one)

- Piping and Plant Layout Engineering
- Electrical Engineering
- Pipe stress Engineering
- Instrumentation and Control Engineering
- Mechanical (Static)
- Mechanical (Rotating)
- HVAC engineering
- Fire Fighting Engineering
- Mechanical Engineering
- Offshore Structure Engineering
- Civil and Structure Engineering
- Process Safety Engineering
- Drilling Engineering
- Piping Engineering
- Pipeline Engineering
- Petroleum Economics
- Process Engineering
- Project Management
- QHSE-CSR Engineering
- Fabrication & Construction Engineering
- Installation & Commissioning Engineering
- Decommissioning Engineering
- Subsea Engineering
- CAD Administration
- Construction Management

For more information and registration, please contact:

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