

Level 5 Diploma in CHEMICAL EQUIPMENT TECHNOLOGY



Programme Overview

Diploma in Chemical Equipment Technology is a Diploma Level 5 programme offered by Politeknik Brunei in collaboration with Hengyi Industries Sdn. Bhd and Lanzhou Petrochemical Polytechnic College.

The programme aims to develop students with the ability to do monitoring, inspection, maintaining and repairing of equipment. Concomitantly to practice students with critical thinking and solving problems during daily operations.

The duration for the programme is a 3 Years (6 Semesters) programme which include 2 Years (4 Semesters) of school based learning at Lumut Campus, Politeknik Brunei and 1 Year (2 Semesters) of industrial based learning at Hengyi Industries Sdn. Bhd.

Testimony

Muhammad Mui'zadin bin Muhd Muzaine
(21FTP1494)

"Chemical Equipment Technology has always been my first choice because the course relates to the Oil and Gas industry and I am thrilled to learn that Hengyi Industry is part of it. It also gives a good opportunity to work with Hengyi Industry right after graduation day which is very good for us. One of the advantages is that you'll learn a new language which is, Mandarin. Zhù dàjiǎ hǎo yùn (Goodluck people)."



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List of Modules

Semester 1

- HS1101 Health, Safety, Security & Environment
- GS1101 Pengajian Melayu Islam Beraja
- GS1102 Pendidikan Islam
- GS1127 Mathematics for Science
- GS1118 Communication Skills
- IS1212 Information Technology

Semester 2

- CT2201 Technical Drawing
- CT2202 Mechanical Engineering Materials
- CT2203 Mechanical Engineering Design
- CT2204 Surveying and Drawing Training
- LA2501 Language

Throughout 3 years programme

- EM1108 Enrichment

Semester 3

- CT3201 Process Equipment and Control Engineering
- CT3302 Technology in Petrochemical
- CT3303 Chemical Vessel and Equipment 1
- BE1102 Entrepreneurship Basics
- LA2501 Language

Semester 4

- CT4201 Safety Technology of Chemical Equipment
- CT4302 Technical Management of Chemical Equipment
- CT4303 Chemical Vessel and Equipment 2
- CT4304 Corrosion Control in the Refining Industry
- LA2501 Language

(Industrial Base Learning)

Semester 5 & 6

- CT5201 Safety Knowledge
- CT5202 Basic Knowledge and Skills

Notes that:

1. School Based Learning from Semester 1 to Semester 4.
2. Industrial Based Learning from Semester 5 and Semester 6
3. The Language module is subject to the needs of the industry.

Testimony

"Chemical Equipment Technology (CET) is a new 3-year Diploma programme introduced by Politeknik Brunei in collaboration with Hengyi Industries Sdn Bhd. I feel that over the duration of the programme, I gained not only basic and advanced knowledge in equipment management but also improved my communication skills and confidence, as well as practical strategies that will be beneficial to me and those I deal with personally and professionally. The lecturers in each module were patient, understanding, and highly skilled. Overall, it was a great experience and it exceeded my expectations significantly. I would thoroughly recommend this programme to anyone interested in this field."

Nuryasmin Amirah binti Malik (21FTP1508)

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Career Progression

Upon completion of the programme, graduates will have the opportunity to be employed by Hengyi Industries Sdn. Bhd as Operator Trainee..



Other career opportunities:-

- Instrumentation and Plant Operation
- Petrochemical Plant Industries

Academic Progression

Successful graduates may pursue further studies in local universities (UBD and UTB):

**Subjected to CGPA attained and the university admission requirements*

- Bachelor of Engineering in General Engineering
- Bachelor of Engineering in Chemical Engineering
- Bachelor of Engineering in Chemical and Process Engineering
- Bachelor of Engineering in Petroleum Engineering
- Bachelor of Engineering in Mechanical Engineering
- Bachelor of Engineering in Mechatronics Engineering

Testimony

"Chemical Equipment Technology is one of the courses that give people an opportunity to have a job once graduating. It will be a great opportunity to join Hengyi Industry as an experience in working and learning in the industry. With the experiences that I will gain before joining the company, it can make me more confident and ready to work in the future."

Nurul Hamizah binti Muhammad Wardi (21FTP1513)

