

Level 5 Diploma in THERMAL POWER PLANT TECHNOLOGY



Programme Overview

Diploma in Thermal Power Plant Technology is a three (3) years programme course offered by Politeknik Brunei (PB).

This programme helps students in seeking a career majoring in thermal power plant engineering and other related industries.

The duration of this programme is six (6) semesters including one (1) year of Industrial Base Learning at Hengyi Industries Sdn Bhd.

The programme is aimed at designing in producing students' capacity in applying both the learning principles and practices related to the real working environment of thermal power plant operation in a safe and efficient manner to meet the demands of the Petrochemical Operator for Hengyi Industries Sdn Bhd.

This programme has also been developed to provide graduates with the opportunity to further their study in related areas such as mechanical engineering or electrical engineering or others.

Testimony

Ak Ahmad Ziyad Bin Pg Abd Malik
(21FTP1811)

I really value my education at Politeknik Brunei for many reasons. First, I get to learn about many things I never knew about. Another reason is that the teachers here really care about you and your education. Also, I have a lot of chances to make up for work during the week. Tutoring is also available after school for those students who don't understand something. I also have the opportunity to join a variety of sports clubs, such as Frisbee. I also get to learn Mandarin, which I never knew before. Even though we mostly learned through virtual classes, the experience was fantastic and it was flexible. Lastly, this school has a safe learning environment and I learn many things here. These are just some of the many reasons why I value my education at Politeknik Brunei.

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List of Modules

Semester 1

- Pengajian Melayu Islam Beraja
- Mathematics for Science
- Communication skills for Engineering
- Health, Safety, Security & Environment
- Pendidikan Islam
- Information Technology
- Mandarin (Beginner)

Semester 2

- Chemical Drawing & CAD
- Mechanical Engineering Materials
- Electrical and Electronic Technology
- Heat Transfer Analysis & Application
- Engineering Thermodynamics
- Mandarin (Intermediate)

Throughout 3 years programme

- EM1108 Enrichment

Semester 3

- Entrepreneurship Basics
- Fluid Analysis & Application
- Mechanical Basis
- Pump & Fan
- Industrial Instrument Automation

Semester 4

- Distributed Control System
- Power Plant Boiler Technology & Application
- Power Plant Turbine Equipment & Regulation
- Mandarin (Advanced)

(Industrial Base Learning)

Semester 5

- HSSE Safety Management Training
- Turbine Training Stage 1

Semester 6

- Turbine Training Stage 2
- CFB Boiler Training

Testimony

Since Thermal Power Plant Technology programme is a new programme in Politeknik Brunei, it turns out to be a great platform offered to students in furthering their studies. This programme is fruitful yet challenging. However, I managed to overcome them and learned more than I expected as this programme has improved my quality of learning, communication skills, critical and creative thinking as a student.

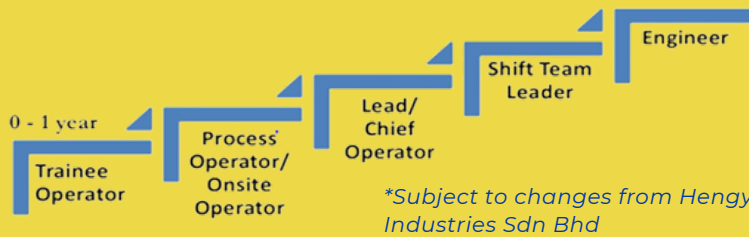
Nuralifah Syasya Syafiqah binti Md Zin (21FTP1813)

I learned the importance of teamwork, prioritizing my work, and managing my time as "time is gold" that allowed me to become more efficient in class. Overall, Thermal Power Plant Technology programme can offer a great advantage to students who want to sharpen their knowledge as this programme acquired both basic and advanced knowledge. I would recommend others to take this challenging programme and also those who are interested in learning Mandarin, then this course is for you. My advice is to always remember that it's okay to take a break or slower than others but do not quit and always get back on track.

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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:-

- Chemical companies
- Specialist research organisations or consultancies
- Universities and Academic Institutions
- The Civil Service

Once completed the programme, can continue further study in area such as:

- Bachelor Degree in Mechanical Engineering (UTB)
- Bachelor Degree in Mechatronic Engineering (UTB)
- Bachelor Degree in Plant Engineering
- Bachelor Degree in Petroleum Engineering (UTB)
- Bachelor Degree in Chemical and Process Engineering (UBD)
- And any Course related to Thermal Power Engineering

Testimony

Md Nurhadi Fadhilah Bin Norhilmi (12FTP1820)

Thermal Power Plant Technology is quite an interesting course. At first, I thought it was going to be a boring course since we were forced to learn mandarin for 3 semesters but it's actually a fun language to take a grasp of. To be honest, the first semester was really a stepping stone to learn all the basics we need to continue on to the more advanced section of our course. I genuinely enjoy this course so far and can't wait for what the next 5 semesters have in store for us.

