

SPC PROGRAMME INFORMATION

PROGRAMME NAME	
DIPLOMA IN LAB TECHNOLOGY	
PROGRAMME OVERVIEW	
<p>The Diploma in Lab Technology is a three-year Level 5 Diploma programme, comprising of six semesters. It is a collaboration between Politeknik Brunei and Hengyi Industries Sdn. Bhd.</p> <p>Graduates will have essential skills and knowledge and ability to carry out various laboratory analysis and practical work independently. Our graduates should be able to:</p> <ul style="list-style-type: none">• Conduct and support scientific investigations and experiments.• Plan, set up and undertake controlled experiments and trials.• Record and analyse data.• Demonstrate procedures.• Collect, prepare and test samples.• Maintain, calibrate, clean and test sterility of the equipment.• Provide technical support.• Present results, write reports, review and summarise.• Keep up to date with relevant scientific and technical developments.• Carry out risk assessments. <p>This programme is designed with the intention to allow students to perform a variety of chemical laboratory testing and analysis, to inculcate students with a good laboratory practice mindset and to expose students to a real industry working environment.</p>	
LIST OF MODULES	
<p>The total credit values of this programme is 92 CV.</p>	
<p>Semester 1</p> <ul style="list-style-type: none">• CL1201 General Chemistry• GS1101 Pengajian Melayu Islam Beraja• GS1102 Pendidikan Islam• GS1117 Communication Skills for Engineering• GS1127 Mathematics for Science• HS1101 Health Safety Security & Environment <p>Semester 2</p> <ul style="list-style-type: none">• CL2202 Basic Laboratory Skills & Techniques• CL2203 Analytical Chemistry• CL2204 Inorganic Chemistry• CL2208 General Biology	<p>Semester 4</p> <ul style="list-style-type: none">• CL2201 Basic Knowledge of Hazardous Chemicals• CL3209 Microbiology• CL5303 Technology in Petrochemical• CL5305 Oil Analysis• IT1201 Information Technology• LA2501 Mandarin (Advance) <p>Semester 5 and 6</p> <ul style="list-style-type: none">• PP1101 Chromatographic Analysis• PP1102 Oil Analysis• PP1103 Elemental Analysis• PP1104 Environmental Monitoring• PP1105 Electrochemical Analysis

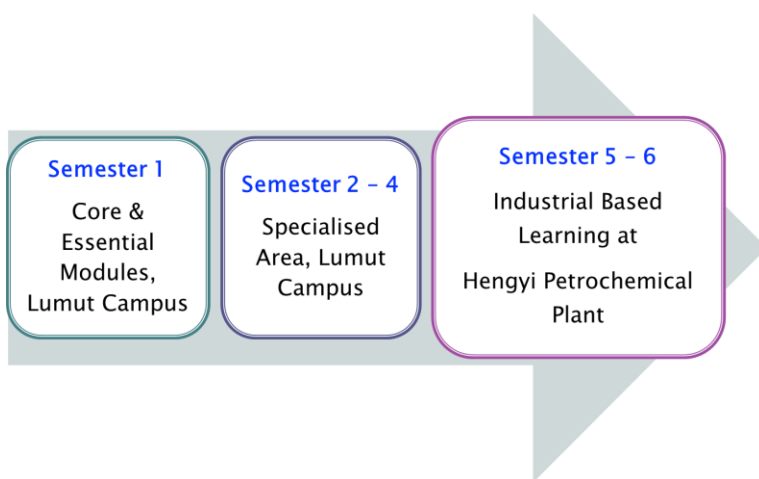
- GS2117 Communication Skill for Engineering II
- LA2501 Mandarin (Beginner)

Semester 3

- BE1102 Entrepreneurship Basics
- CL2207 Biochemistry
- CL3202 Chemistry Laboratory Techniques
- CL3203 Analytical Instrumentation
- CL3205 Fundamental of Organic Chemistry
- CL3206 Physical Chemistry
- LA2501 Mandarin (Intermediate)

Throughout 3 years programme

- EM1188 Enrichment

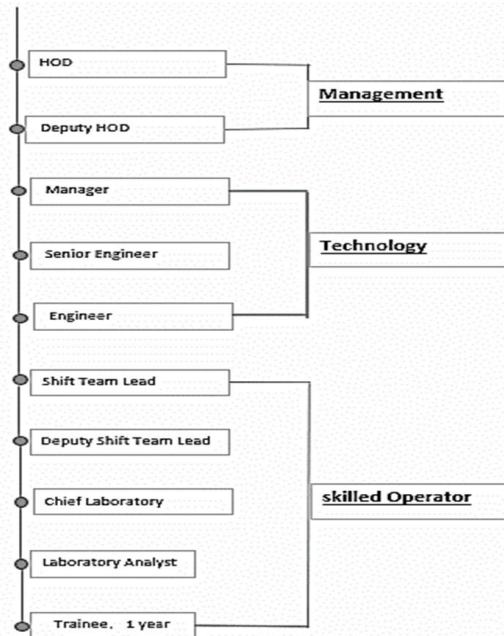


Academic timeline of Laboratory Technology programme

CAREER PROGRESSION

Upon completion of the programme, graduates will have the opportunity to be employed by Hengyi Industries Sdn. Bhd as a **laboratory analyst**.

Career progression offered by Hengyi Industries Sdn Bhd



*subject to changes from Hengyi Industries Sdn. Bhd.

Other career opportunities: -

- Chemical companies
- Environmental agencies
- Specialist research organisations or consultancies
- Universities and academic institutions
- Hospitals and clinics
- The Civil Service
- Water companies
- Pharmaceutical companies
- Food and drink companies

Graduates choosing to pursue further studies, may consider the following local universities (subject to CGPA obtained): -4

- **UBD**
 - Bachelor of Science in Chemical Science
 - Bachelor of Science in Biology
 - Bachelor of Engineering in General Engineering
 - Bachelor of Engineering in Chemical and Process Engineering
 - Bachelor of Science in Geoscience
- **UTB**
 - Bachelor of Engineering (Hons.) in Chemical Engineering

TESTIMONY FROM CURRENT STUDENTS

“The Diploma in Laboratory Technology is a course developed in collaboration with Hengyi industries Sdn. Bhd. which is a plus for me. Throughout my studies so far, I have gained extensive knowledge in scientific research as well as in sample analyses. It is a great way to get hands-on experience in preparation for future employment. It has also equipped me with communication skills in Mandarin and a mindset to face real-life situations.”

*Siti Nursyahirah Binti Shahminan
Intake 10 student
Diploma in Laboratory Technology*

“Choosing the Lab Tech programme was the best decision I made. It is very fun and the lecturer's are welcoming and understanding. This programme is not easy, however it encourages me to think more critically. After I graduate, I would like to work with Hengyi for the contract period and further my studies in a related field. I am also learning Mandarin and overall the programme will give me a promising work position in Hengyi Sdn. Bhd.”

*Nurfarzana Binti Muhammad Hannan
Intake 10 student
Diploma in Laboratory Technology*

PHOTOS

PROGRAMME NAME

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.

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)

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)

Semester 5 (Industrial Base learning):

- HSSE Safety Management Training
- Turbine Training Stage 1

Semester 6 (Industrial Base Learning):

- Turbine Training Stage 2
- CFB Boiler Training

CAREER PROGRESSION

Upon completing the programme, students will have the opportunities to be employed by Hengyi Industries Sdn. Bhd as **Operator Trainee**.



* Subject to changes from Hengyi Industries Sdn Bhd

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 FROM PREVIOUS STUDENTS

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.

- Ak Ahmad Ziyad Bin Pg Abd Malik (21FTP1811)

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.

Md Nurhadi Fadhilah Bin Norhilmi (12FTP1820)

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. 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.

Nuralifah Syasya Syafiqah Binti Md Zin (21FTP1813)

PHOTOS

PROGRAMME NAME

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.

LIST OF MODULES

Total Credit Value: 90 CV

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

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

Semester 5 & 6

- CT5201 Safety Knowledge
- CT5202 Basic Knowledge and Skills

Throughout 3 years programme

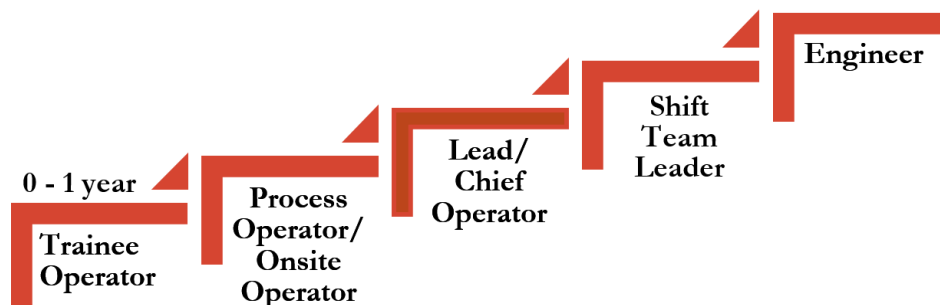
- EM1188 Enrichment

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.

CAREER PROGRESSION

Upon completing the programme, you will have the opportunity to be employed by Hengyi Industries Sdn. Bhd. as a petrochemical operator.



*subject to changes from Hengyi Industries Sdn. Bhd.

Other Career Opportunities:

- Instrumentation and Plant Operation.
- Petrochemical Plant Industries.

Academic Progression:

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

- 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

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

TESTIMONY FROM CURRENT STUDENTS

“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).”

*Muhammad Mui'zadin Bin Muhd Muzaine (21FTP1494)
Intake 11 student
Diploma in Chemical Equipment Technology*

“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)
Intake 11 student
Diploma in Chemical Equipment Technology*

“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)
Intake 11 student
Diploma in Chemical Equipment Technology*

PHOTOS



PROGRAMME NAME

DIPLOMA IN POWER PLANT AND POWER SYSTEM TECHNOLOGY

PROGRAMME OVERVIEW

LIST OF MODULES

CAREER PROGRESSION

TESTIMONY FROM PREVIOUS STUDENTS

*ONGOING studies testimonial will suffice.
Checked with RSO and reminded them that our first SPC Intake (Intake 10) have not completed their studies. Was advised to include 'ongoing' testimonial.*

PHOTOS

PROGRAMME NAME

DIPLOMA IN STORAGE AND TRANSPORTATION TECHNOLOGY

PROGRAMME OVERVIEW

Three-year Level 5 Diploma programme comprises six semesters and it is a collaboration between Politeknik Brunei and Hengyi Industries Sdn. Bhd.

Diploma in Storage and Transportation Technology is an oil and gas field which studies the technology used for storage, such as vessels and gas tanks, and transportation, such as pipelines and ships, of oil and gas products. By the end of the programme, our graduates are expected to be able to:

- Analyse the composition of different oil and gas products
- Maintain and calibrate equipment related to storage and transportation of petrochemical
- Gauge and measure the properties of oil and gas products with respect to the plant standards
- Carry out risk assessment of the safety and operation of oil depot

The programme consisted of two years classroom-based learning at Lumut Campus, Politeknik Brunei and one year industrial-based learning at Hengyi Industries Sdn. Bhd.

LIST OF MODULES

The total credit values for this programme is 90CV

SEMESTER 1

- HS1101 Health, Safety, Security and Environment
- GS1101 Pengajian Melayu Islam Beraja
- GS1102 Pendidikan Islam
- GS1127 Mathematics for Science
- GS1118 Communication Skills
- ST1201 General Chemistry

SEMESTER 2

- ST2201 Chemical Drawing and CAD
- ST2202 Electrical and Electronics Technology
- ST2203 Engineering Hydrodynamics
- ST2204 Pyrology Foundation
- ST2205 Chemical Unit Process and Equipment
- LA2501 Language

SEMESTER 3

- ST3201 Technology and Equipment of Oil Depot
- ST3202 Introduction to Oil and Product
- ST3203 Pumps and Compressors
- ST3204 Corrosion Control in The Refining Industry
- ST3305 Instrument and Automation of Storage and Transportation
- BE1102 Entrepreneurship Basics
- LA2501 Language

SEMESTER 4

- ST4301 The Basic Safety Knowledge of Port and Ship and Port Security
- ST4302 Production Technology of Oil Depot
- ST4303 Measurement Technology of Oil Product
- ST4304 Storage and Transportation of Liquefied Hydrocarbons
- ST4305 Safety Technology and Management of Oil Depot
- IS1212 Information Technology
- LA2501 Language

SEMESTER 5 TO 6 (Industrial-based learning)

- ST5301 Professional Knowledge and Competency 1
- ST5302 Professional Knowledge and Competency 2

THROUGHOUT 3 YEARS

- EM1188 Enrichment

CAREER PROGRESSION

Upon completing the programme, you will have the opportunity to be employed by Hengyi Industries Sdn. Bhd. as a petrochemical operator.



* Subject to changes from Hengyi Industries Sdn Bhd

Other career opportunities:

- Petrochemical plant industries
- Oil depot and shipping industries

Additionally, study progression to Bachelor's Degree level are recommended in the following fields (subjected to CGPa obtained):

UBD

- General Engineering
- Chemical and Process Engineering

UTB

- Chemical Engineering
- Petroleum Engineering
- Mechanical Engineering

TESTIMONY FROM PREVIOUS STUDENTS

"First of all, the study was fascinating and well managed by my wonderful lecturers. So far, I am able to adapt my learning throughout COVID-19 pandemic. Furthermore, I am surrounded by my 15 spectacular classmates and they are super hardworking and lovely. Finally, I hope that all my studies will fulfill the requirements to the job that I desire to do work on. For example, I hope that my job suits the environment to the place where I belong, which is my family."

*Patrick Yap Raymundo
Intake 11 Student*

Diploma in Storage and Transportation Technology

"I am a first batch student from this course and just pursued 1st semester. As far as I know, we had learnt the most important module in the first place and it is very much related with our future job, General Chemistry which is covering basic theory in chemistry. Apart from that, we had gone through each assignment per module in a group to learn teamwork, sharing ideas, communicate and brainstorming. Once completed 3 years, students will have their opportunities to become petrochemical operators at Hengyi Industries Sdn. Bhd."

*Afeus Bin Kula
Intake 11 Student*

Diploma in Storage and Transportation Technology

PHOTOS

PROGRAMME NAME

DIPLOMA IN WATER TREATMENT TECHNOLOGY

PROGRAMME OVERVIEW

This is a three-year (six semesters) Level 5 Diploma programme offered by Politeknik Brunei in collaboration with Hengyi Industries Sdn. Bhd and Lanzhou Petrochemical Polytechnic College.

The aim is to produce qualified Designed to produce highly skilled and qualified Water or Wastewater Operators to operate and maintain water-treatment plants and to monitor water quality.

The Diploma in Water Treatment Technology focuses on the study of systems and processes related to the water industry and variety of water quality testing and analysis.

LIST OF MODULES

The total credit values of this programme is 90 CV.

SEMESTER 1:

HS1101 Health, Safety, Security & Environment
GS1101 Pengajian Melayu Islam Beraja
GS1102 Pendidikan Islam
GS1118 Communication Skills
GS1127 Mathematics for Science
WT1201 General Chemistry

SEMESTER 2:

IS1212 Information Technology
WT2201 Basic Knowledge of Hazardous Chemicals
WT2202 Inorganic and Analytical Chemistry
WT2203 Utilization and Protection of Water Resources
LA2501 Language

SEMESTER 3:

BE1102 Entrepreneurship Basics
WT3201 Chemical Drawing
WT3202 Water Treatment Microbiology
WT3303 Water Environment Monitoring Technology
WT3304 Chemical Unit Process Equipment I
LA2501 Language

SEMESTER 4:

WT4201 Environmental Impact Assessment
WT4202 Technology of Water Pollution Control
WT4203 Industrial Instrumentation Automation
WT4304 Chemical Unit Process and Equipment II
WT4305 Chemical Engineering CAD Training
LA2501 Language

SEMESTERS 5 & 6:

WT5301 Professional Knowledge and Competency I

WT5302 Professional Knowledge and Competency II

THROUGHOUT 3 YEARS
EM1188 Enrichment

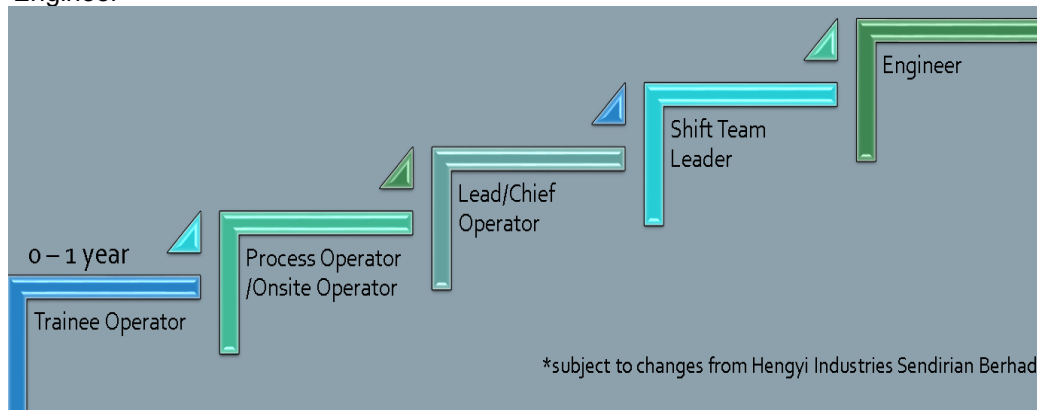
Note:

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

CAREER PROGRESSION

Upon completing the programme, graduates will have the opportunity to be employed by Hengyi Industries Sendirian Berhad as Water or Wastewater Treatment Operator. Career progression is in the following order (subject to changes from Hengyi Industries Sendirian Berhad):

- Trainee operator
- Process / onsite operator
- Lead / Chief operator
- Shift Team Leader
- Engineer



Other career opportunities, such as:

- Industrial water and wastewater treatment (example Hengyi Petrochemical Plant)
- Water and distribution facilities (private or municipal levels)
- Water quality and environmental monitoring
- Analysis of water samples in a laboratory setting
- Water and wastewater treatment equipment services and product suppliers
- Water, Food and Drink companies

For academic progression, these are the potential relevant Degree courses available in the local universities (subjected to the Universities' entry requirement and may not be limited to):

- Bachelor of Engineering – (General Engineering & Chemical and Process Engineering) in UBD
- Bachelor of Science – (Geoscience) in UBD
- Bachelor of Art – (Environmental Studies & Geography and Development) in UBD
- Bachelor of Engineering (Honours) in Electrical and Electronic Engineering in UTB
- Bachelor of Science in Food Science and Technology in UTB
- Bachelor of Halal Sciences in UNISSA

TESTIMONY FROM PREVIOUS STUDENTS

What I think of my studies so far is that I am doing my best. Being able to study at PB is a blessing and a great opportunity for me despite having a different background, but that doesn't stop me from learning new skills, improving my own personal development and my knowledge to advance my future career. I hope my friends and I can find our purpose in life, and studying goes easy for us. With hard work and dedication, when you put your mind to it, anything is possible.

*NUR RADIFAH BINTI HAJI RUSLI (21FTP1546)
Intake 11 student
Diploma in Water Treatment Technology*

To start with, I would like to thank my amazing lecturers for guiding us and always supporting us even in these challenging times during the Covid-19 pandemic. Therefore, I have the ability to understand and gain on my learning throughout the Covid-19 pandemic. Moreover, my wonderful 29 classmates and I had been supportive of each other, hard working and also built our relationship through communication. Lastly, I wish all my skills and studies will satisfy the requirements for the career that I dream to work on.

*LIM CHUN WEI (21FTP1549)
Intake 11 student
Diploma in Water Treatment Technology*

PHOTOS



PROGRAMME NAME

DIPLOMA IN CHEMICAL ENGINEERING

PROGRAMME OVERVIEW

Politeknik Brunei in collaboration with Hengyi Industries Sdn Bhd, has set up the Level 5 Diploma in Chemical Engineering programme to train students with essential knowledge and technical skills in the petrochemical field. The duration for the program is three (3) years.

The aim of the programme is to produce qualified Petrochemical Operators to meet the needs and demands of Hengyi Industries Sdn Bhd and other related industries.

LIST OF MODULES



*Level 5 Diploma in Chemical Engineering 3-years programme study progression
[LPPC – Lanzhou Petrochemical Polytechnic College]*

Level 5 Diploma in Chemical Engineering Programme Structure

<p>Semester 1 Pengajian MIB Pendidikan Islam Mathematics for Engineering 1 Communication Skills for Engineering General Chemistry Electrical & Electronic Principles</p>	<p>Semester 4 Chemical Unit Process and Equipment 2 Petrochemical Production Technology Polymer Production Technology Industrial Instrumentation Automation Mandarin (Advanced)</p>
<p>Semester 2 Health, Safety, Security and Environment Entrepreneurship Basics Fundamentals of Organic Chemistry Physical Chemistry Introduction to Oil and Product Mandarin (Beginner)</p>	<p>Semester 5 Chemical Unit Operation Training Chemical Equipment Foundation Practical Training of Petroleum Hydrocarbon Pyrolysis Unit Practical Training of Pyrolysis Gas Compression Device Training of Pyrolysis Gas Separation Unit Crude Oil Distillation Unit Training Thermal Cracking of Petroleum Hydrocarbon Training Atmospheric and Vacuum Distillation Unit</p>

	Simulation Training Propylene Unit Simulation Training
Semester 3 Mathematics for Engineering 2 Information Technology Basic Knowledge of Hazardous Chemicals Analytical Chemistry Chemical Unit Process and Equipment 1 Mandarin (Intermediate)	Semester 6 Professional Knowledge and Competency 1 Professional Knowledge and Competency 2
Note: Students are also required to complete the Enrichment module throughout the 3-years programme	

CAREER PROGRESSION



Career path of Level 5 Diploma in Chemical Engineering Graduates at Hengyi Industries Sdn Bhd
(note: subject to changes by Hengyi Industries Sdn Bhd)

TESTIMONY FROM PREVIOUS STUDENTS

"It's a very good opportunity for us to gain employment. This course is not easy for us. We have to learn new skills. In the fifth semester, we will be continuing our study at Lanzhou Petrochemical Polytechnic for a semester before being placed for an internship at Hengyi Industries Sdn. Bhd."

*Muhammad Safwan bin Azmi (20FTE1880)
Intake 10 Student
Level 5 Diploma in Chemical Engineering*

"I am very grateful for the offer. We still need to study hard to get confirmation of employment. Working in Hengyi Industries Sdn. Bhd. will surely see me acquire more skills and experience"

*Ummi Nadzirah binti Abdullah Abdul Ghani (20FTE1953)
Intake 10 Student
Level 5 Diploma in Chemical Engineering*

PHOTOS



PROGRAMME NAME

DIPLOMA IN POWER PLANT AND POWER SYSTEM

PROGRAMME OVERVIEW

Diploma Level 5 programme in Politeknik Brunei.
Aim to meet the demands of Petrochemical Operators for Hengyi Industries Sdn. Bhd.
THREE (3) YEARS study
Two (2) years classroom based learning in Lumut Campus, Politeknik Brunei.
One (1) year industrial based learning at Hengyi Industries Sdn. Bhd.

LIST OF MODULES

The total credit values for this programme is 90CV

SEMESTER 1

- Health, Safety, Security and Environment
- Pengajian Melayu Islam Beraja
- Pendidikan Islam
- Engineering Mathematics 1
- Communication Skills for Engineering
- Introduction to Oil and Product

SEMESTER 2

- Information Technology
- Engineering Mathematics 2
- Fundamentals of Electrical Circuits 1
- Electrical Drawing
- Electrician Training and Regulation
- Language

SEMESTER 3

- Entrepreneurship Basics
- Fundamentals of Electrical Circuits 2
- Electro mechanics
- PLC Application and Training
- Electrical Control Technology
- Language

SEMESTER 4

- Power Systems automation
- Power Plant and Substation Electrical Equipment
- High voltage technology
- Power system protection

- Power supply and distribution technology
- Power Systems automation
- Language

SEMESTER 5 TO 6 (Industrial-based learning)

- Orientation Training
- Electrical Operation Post Training
- Electrical Maintenance Post Training

THROUGHOUT 3 YEARS

- Enrichment

CAREER PROGRESSION

Upon completing the programme, you will have the opportunity to be employed by Hengyi Industries Sdn. Bhd. as a petrochemical operator.



* Subject to changes from Hengyi Industries Sdn Bhd

Other career opportunities:

- Petrochemical plant industries
- Oil depot and shipping industries

Additionally, study progression to Bachelor's Degree level are recommended in the following fields (subjected to CGPa obtained):

- Univesiti Brunei Darussalam (UBD)
 - General Engineering
- Universiti Teknologi Brunei (UTB)
 - Electrical and Electronics Engineering

TESTIMONY FROM PREVIOUS STUDENTS

For a start, I would like to express my gratitude to all of my dedicated lecturer for helping us in studies especially during this 2nd covid-19 outbreak, helping us on any enquiries even after office hours. Studying in PB is a dream come true for me and enroll in one of the promising course in joint collaboration between pb and hengyi give me significant hindsight that I'm be able to improve more on my knowledge and further enhance my hands-on skills and for that my classmates has been very helpful and supportive towards eachother, dedicate to achieve current goals and lastly I hope that with all hard work and efforts we being putting through, all will be going as plans.

MUHD ZULFAQAR BIN HAJI RAMLI
21FTP1515
DIPLOMA IN POWER PLANT AND POWER SYSTEM TECHNOLOGY

PHOTOS

