

MSC IN PROCESS SAFETY

JPT/BPP(R/540/7/0015)12/25 JPT/BPP(N-DL/540/7/0004)03/26





Progress towards zero safety incidents!

Improving process safety has never been more vital. Yet, statistics suggest it has also never been more difficult. Also, recent statistics have shown that Major Hazard Installations (MHI) are moving upward in the region. However, the supply pipeline of process safety engineers is simply not wide enough to cater to the industry's growing needs. Designed in collaboration with well-known process safety institutions and experts, MSc in Process Safety at UTP aims to overcome the industry's talent deficit in Malaysia and the Asia Pacific region. Decidedly, process safety engineers will be at the centre of managing process safety hazards, laying down the bedrock for ongoing improvements especially in upstream and downstream operations.

At UTP, candidates will work with senior industry experts and capture real-case data in understanding and managing risks linked to the industry's larger performance management goals. This helps candidates to attain a focus on the prevention, mitigation and response to major accidents and losses caused by fire, explosion and toxic release in a process installation. Ultimately, candidates will adopt a future-ready mindset and exposed to the latest best practices to oversee process safety management across the full process lifecycle spectrum.

Building a talent pipeline of process safety specialists! Benefit from learning objectives tied to the contours of reality-based industry situations and changes!

Join a leading feeder university for the process safety industry!

Get in touch with the latest industry thinking.

Grow your industry perspective with subjects grounded in day-to-day industry challenges, opportunities and outcomes. Learn how to leverage real industry data and research evidence to provide solutions through cutting edge technology tools and management techniques.



Major incidents in upstream and downstream operations over the last few years are setting the tone for better practices and regulations. In the future, the industry is set to become a highly regulated professional industry where process design architecture, engineering, operating and maintenance principles will boost industry-wide practices—enhancing quality and safety.

Who is the programme for?

In asset-intensive industries, good safety is good business!

As global industries are being reconfigured as people and technology collaborate, process safety engineers will be a key cog for critical sectors such as oil and gas, petrochemical, chemical, pharmaceutical, consulting, public and R&D. Against this background, innovative and resourceful process safety engineers will be highly sought after to bring change as risk and safety managers, process and technical safety engineers, HSE lead engineers, risk analysts, safety consultants and many more.

3 reasons to join MSc in Process Safety at UTP!

1

Established in 2017 after extensive deliberation via an Expert Panel Workshop attended by renowned academicians and professionals from industries. This is the only program focusing on Process Safety offered in Malaysia.

2

Modular-based programme jointly developed with PETRONAS, custodian engineers, and well-known process safety institutions as well as experts.

3

Comprehensive coverage of the main discipline and thrust of process safety Includes Hazard Properties, Safety System, Process Technology/Design, Human Factor, and Risk Analysis) through offerings of developed modules

The industry is our classroom

- Curriculum jointly developed with PETRONAS' custodian engineers and well-known process safety institutions as well as experts. (IChemE Safety Centre & MKO Process Safety Centre)
- 2 Programme subjects delivered by senior industry experts and adjunct lecturers.
- 3 Project-based assignments: Capture real industry-derived analytical data resources.

Course Structure

Candidates are required to complete total of 41 credit hours. The programme's curriculum structure is as follows:

Category	Module	Credit Hour	
Core	Principles of Process Safety Management Safe Design and Operation Human Factors Principles of Hazard Analysis & Risk Management System Safety Engineering	3 3 3 3 3	
Electives (Choose 3)	Fire & Explosion Engineering Quantitative Risk Assessment Incident Prevention & Emergency Management Industrial Hygiene Engineering Environmental Risk & Impact Assessment Process Plant Integrity & Reliability	3 3 3 3 3 3	
University Requirement	Data Analytics Project Management	3 2	
National Requirements	Research Methodology	2	
Project	Industrial Based Project	10	
TOTAL		41	

Mode of study

Conventional

ODL

Minimum 12 months
Maximum 36 months

On-demand tailored weekend programme

Busy working? Fret not. We have 2 options for you: a. On-demand tailored weekend programme

(Conventional mode)

b. Fully online programme (ODL mode)

Medium of Instruction

Intake

English

January/May/September

Entry requirements

Academic

1	Bachelor's Degree in a relevant field from a recognised university with a minimum CGPA
	of 2.50 or its equivalent.

- Bachelor's Degree in a relevant field from a recognised university with a minimum CGPA of 2.00 2.49 or its equivalent will require 5 years of working experience and internal rigorous assessment.
- Bachelor's Degree from different discipline, must undergo pre-requisite courses in Engineering or Engineering Technology.
- 4 Apply with your working experience. Candidate who satisfy APEL A requirements are eligile to enrol. Scan the QR code to learn more.



English language proficiency

International students are required to be proficient in written and spoken English with a minimum TOEFL score of 500 OR a minimum IELTS score of 5.0 or its equivalent.

Exemptions may be provided for candidates who are native English speakers or degree holders with English as the medium of instruction.

Graduation requirements

In order to graduate with MSc in Process Safety degree, candidate is required to:

- 1 Obtain a minimum cumulative grade point average (CGPA) of 3.00
- 2 Satisfy all the requirements approved by UTP Senate
- 3 Fulfill the required credit hours and pass Research Methodology course

Tuition fees

Malaysian	International

Conventional		DL	Conventional		ODL	
RM29,550 RM		23,700 RI		8,600	RM30,800	
RM400		Resource (every semester)			- RM400	
RM500		Registration			RM1,400	
RM500		Commitment		RM800		
		Personal bond		RM3,000		



Rankings & ratings











RANKED 79





For programme enquiry:

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For admission enquiry:



Local candidates: +605 368 8064

International candidates: +605 368 8364

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For further details on the application, visit www.utp.edu.my









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