Master of Science in Process Safety and Risk Management (PSRM)
Awarded by Newcastle University
Postgraduate taught degree, face to face sessions
Programme duration: 24 months part-time study

About the Programme

The Master of Science in Process Safety and Risk Management is a 2-year part-time postgraduate taught programme designed to enable students to understand the overarching requirement of compliance to legislation. It aims to enhance students’ knowledge and skills required to measure and quantify safety levels, hazardous emissions and exposure levels, and to design, operate and manage inherently safer plants.

The Project Dissertation module will have access to state-of-the-art laboratories, allowing students to apply knowledge gained from lectures and to study certain specialist subject areas more deeply. The programme is taught by a team of highly competent professionals to train students in this important area in the industry. Students will obtain a prospective accredited postgraduate degree qualification to facilitate better career development and develop deeper knowledge across the broad subject of process safety and risk management.

Learning Outcomes

The programme provides opportunities for students to develop and demonstrate knowledge and understanding, qualities, skills and other attributes as listed below:

1. Greater understanding of legislation, standards and regulations related to process safety, occupational health, environmental emissions and impact.
2. Greater understanding and knowledge of physical, chemical and biological hazards.
3. Advanced knowledge and skills to measure and quantify hazards and risks.
4. Advanced knowledge in the underpinning science and engineering skills required to design inherently safer engineering equipment and processes.
5. Advanced knowledge and skills required to ensure process plants operate safely and workers are provided with safe environment to work.
6. Advanced knowledge and skills required to respond effectively to catastrophic failure and emergency release.
7. Advanced knowledge and skills required to manage process safety and risks.
Modules (All modules are core units)

- Legislation Safety Case and Incident Investigation
- Environmental Impact, Legislation and Engineering
- Safety Engineering and Loss Prevention
- BioSafety Engineering and Occupational Health
- Research Method
- Safety, Health and Risk Management in Process, Petroleum and Offshore Engineering
- Hazard Identification and Quantitative Risk Assessment
- Mechanical Integrity in Process Safety
- Process Control
- Project Dissertation

Minimum Entry Requirement

First degree in Chemical Engineering or equivalent engineering qualification with minimum lower second classification (2.2) or equivalent.

Candidates with relevant Diploma certificate with at least 8 years of working experience and is at least 30 years old may also be considered on a case by case basis.

English Language Entry Requirements: IELTS overall 6.5 or equivalent.

Application Fees per programme (non-refundable), subject to prevailing GST

- Singapore Citizens and/or Permanent Residents: SGD90/-.  
- Singapore Employment and/or Dependant’s Pass Holders: SGD135/-.  

Tuition Fees per programme, subject to prevailing GST

- Singapore Citizens and/or Permanent Residents: SGD15,000/-.  
- Singapore Employment and/or Dependant's Pass Holders: SGD22,500/-.  

Applicant Eligibility

The course is only available to Singapore Citizens, Singapore Permanent Residents, Singapore Employment Pass holders, Singapore Dependant’s Pass* holders.

*subject to approval by the respective pass-issuing authority.

How to apply

Interested applicants should attend a pre-application counselling session in NewRIIS before applying online at: [http://www.ncl.ac.uk/postgraduate/apply/](http://www.ncl.ac.uk/postgraduate/apply/).

Website: [www.ncl.ac.uk/singapore/newriis/](http://www.ncl.ac.uk/singapore/newriis/)

For more information, please contact the NewRIIS team: newriis.research@newcastle.ac.uk / +65 6514 0568.