

Handbook 2020

Coursecode

G1078

GRADUATE DIPLOMA IN SAFETY SCIENCE

Murdoch University

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Cancellation of Courses, Majors, Minors and Units

The University reserves the right to cancel, without notice, any course, major, minor or unit if the number of students enrolled falls below limits set by the University or in other unforeseen circumstances.

Alternative Formats

Handbook home page:

<http://handbook.murdoch.edu.au>

This publication can also be provided in alternative formats by contacting the Equity and Social Inclusion Office at Murdoch University

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Group	Course	Offerings
Graduate Coursework Degrees and Professional Doctorates		
Safety Science	Graduate Diploma in Safety Science (GradDipSafetySci)	<ul style="list-style-type: none"> • Murdoch campus (internal) • Some units only: Murdoch campus (external) (all but one unit)

SAFETY SCIENCE

GRADUATE DIPLOMA IN SAFETY SCIENCE (GRADDIPSAFETYSCI)

Special Requirements:

Candidates are assumed to have some prior knowledge and must have passed the following units at Murdoch or their equivalent elsewhere:

MAS221 Mathematical Modelling (desirable)
 ENG201 Fluid Mechanics (desirable)
 CHE144 Foundations of Chemistry (essential)
 PEN152 Principles of Physics (essential)
 ENG203 Heat Transfer (desirable)

Graduate Diploma in Safety Science (GradDipSafetySci)

Duration: 1 year full-time or part-time equivalent

Main Research Areas:

The physics and engineering of safety, social policy and organisational aspects; the assessment, management and communication of risks; the effectiveness of control and management techniques for safety; standardisation, legislation, inspection.

Physics

The Graduate Diploma in Safety Science is based on the scientific-practitioner model. It provides an understanding into areas covering engineering and psychology principles relevant to safety. It is particularly appropriate for those currently working in industry where further knowledge in safety is desired. It is intended for those who are practicing, or intend to be practicing in Occupational Safety & Health (OSH). Admission requirements are a minimum bachelor's level degree in a cognate discipline or equivalent industry experience. Enrolment is also open to graduates from other disciplines who are interested in understanding process safety, fire and explosion safety, psychometric assessment, organisational culture, psychosocial hazards, human factors, management of change and Environmental Assessment and Risk Management. It will also provide the graduate with the requisite coursework to undertake subsequent higher post-graduate degree courses.

Restriction: All graduate courses are subject to restriction.

Course Codes: G1078

Employment Prospects:

The Safety Science Diploma holders can find employment in industrial or government organisations as safety professionals in a managerial OSH role, which requires a minimum Graduate Diploma level degree.

Availability:

- Murdoch campus (internal) - Some units only: Murdoch campus (external) (all but one unit)

Admission Requirements (Onshore):

Recognised Bachelor's degree (AQF Level 7) in the environmental or chemical engineering discipline. Students with recognised prior learning in other disciplines or practice are also eligible for admission as determined by the Academic Chair.

Course Structure - 24 credit points

Core Units - 24 credit points

ENG520 Chemical Process Safety - 3 points
 MURDOCH: S1-internal, S1-external

ENG519 Electrical Safety - 3 points
 Not available this year

BIO639 Global Biosecurity - 3 points
 MURDOCH: S1-internal, S1-external

OR

ENV557 Environmental Assessment and Management - 3 points
 MURDOCH: S1-internal, S1-external

PSY505 Professional Practice and Organisational Consulting - 3 points
 MURDOCH: S1-internal

PSY506 Organisation of Work - 3 points
 MURDOCH: S2-internal

ENG518 Fire and Explosion Safety - 3 points
 MURDOCH: S2-internal, S2-external

SHP501 Safety and Quality in Health Care - 3 points
 MURDOCH: S1-external, S2-external

OR

ENV558 Environmental Monitoring - 3 points
 MURDOCH: S2-internal, S2-external

PSY611 Work and Well-being - 3 points
 MURDOCH: S2-internal, S2-external

PREREQUISITES

Chemical Process Safety (ENG520)

Enrolment in the Graduate Diploma in Safety Science.

Electrical Safety (ENG519)

Enrolment in the Graduate Diploma in Safety Science.

Environmental Assessment and Management (ENV557)

Enrolment in Bachelor Environmental Science or Bachelor Marine Science or Graduate Certificate in Environmental Assessment and Management or Graduate Certificate in Protected Area Administration or Graduate Diploma in Energy and the Environment or Graduate Diploma in Environmental Science.

Environmental Monitoring (ENV558)

Enrolment in Bachelor Environmental Science or Bachelor Marine Science or Graduate Certificate in Environmental Science or Graduate Certificate in Protected Area Administration or Graduate Diploma in Energy and the Environment or Graduate Diploma in Environmental Science.

Fire and Explosion Safety (ENG518)

Enrolment in the Graduate Diploma in Safety Science

Global Biosecurity (BIO639)

Enrolment in a graduate-level course.

Organisation of Work (PSY506)

Enrolment in the Graduate Diploma in Safety Science

Professional Practice and Organisational Consulting (PSY505)

Enrolment in the Graduate Diploma in Safety Science

Safety and Quality in Health Care (SHP501)

Enrolment in a Graduate course.

Work and Well-being (PSY611)

Enrolment in the Graduate Diploma in Safety Science, MBA(PP), MBA (Global) MHRM, or Masters of Health Administration, Policy, and Leadership