

BLDG 7005 EGRESS AND RISK ASSESSMENT

Credit Points 10

Legacy Code 300717

Coordinator Won Hee Kang ([https://directory.westernsydney.edu.au/search/name/Won Hee Kang/](https://directory.westernsydney.edu.au/search/name/Won%20Hee%20Kang/))

Description This subject introduces the concept of risk assessment for fire safety systems relevant to life safety and property protection. The subject helps students develop an understanding of building occupant characteristics and human behaviour during fire emergencies. Parameters, methods and criteria for risk and economic assessments are covered in this subject.

School Eng, Design & Built Env

Discipline Building Construction Management

Student Contribution Band HECS Band 2 10cp

Check your fees via the Fees (https://www.westernsydney.edu.au/currentstudents/current_students/fees/) page.

Level Postgraduate Coursework Level 7 subject

Equivalent Subjects LGYB 5424 - Fire Safety Systems 1 (Property)

Restrictions

Students must be enrolled in a postgraduate program.

Assumed Knowledge

This subject assumes that the student has undertaken study in building construction, building surveying, engineering, science, architecture or a related area or has gained the equivalent knowledge by working in the construction industry in an appropriate capacity for at least four years.

Learning Outcomes

On successful completion of this subject, students should be able to:

1. explain the concept of qualitative and quantitative risk in terms of life safety and property protection;
2. categorise risk parameters and establish risk assessment criteria
3. characterise human behaviour in fire emergencies and its implications in egress analysis and fire safety engineering assessment
4. apply the knowledge and skills to solve specific problems and to conduct quantitative risk assessment and develop risk management strategies.

Subject Content

Introduction to risk concepts
Risk audits and inspections
Reliability in fire safety engineering
Fire Risk Ranking
Risk analysis
Occupants and detection of fires
Human Behaviour in fires
Occupant movement and egress
Occupants and untenability
Cost benefit analysis
Treatment of risks and risk management

Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

Type	Length	Percent	Threshold	Individual/ Group Task	Mandatory
Report	1,500 equivalent, individual	25	N	Individual	N
Report	1,500 equivalent, individual	25	N	Individual	N
Report	1,500 equivalent, individual	25	N	Individual	N
Report	1,500 equivalent, individual	25	N	Individual	N

Teaching Periods

Spring (2025)

Online

Online

Subject Contact Won Hee Kang ([https://directory.westernsydney.edu.au/search/name/Won Hee Kang/](https://directory.westernsydney.edu.au/search/name/Won%20Hee%20Kang/))

View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=BLDG7005_25-SPR_ON_2#subjects)