

# CIVL 7012 BUILDING FIRE SERVICES

**Credit Points** 10

**Legacy Code** 300711

**Coordinator** Sameera Wijesiri Pathirana ([https://directory.westernsydney.edu.au/search/name/Sameera Wijesiri Pathirana/](https://directory.westernsydney.edu.au/search/name/Sameera%20Wijesiri%20Pathirana/))

**Description** This subject describes the various types and application of building services and fire safety systems. It introduces appropriate standards for building fire service system design and the methods of applying recommendations of fire engineering assessments with respect to building services and fire safety systems.

**School** Eng, Design & Built Env

**Discipline** Building Services Engineering

**Student Contribution Band** HECS Band 2 10cp

Check your fees via the Fees ([https://www.westernsydney.edu.au/currentstudents/current\\_students/fees/](https://www.westernsydney.edu.au/currentstudents/current_students/fees/)) page.

**Level** Postgraduate Coursework Level 7 subject

**Equivalent Subjects** LGYC 0661 - Building Fire Services

## Restrictions

Students must be enrolled in a postgraduate program.

## Assumed Knowledge

Building surveying, fire safety engineering and related disciplines.

## Learning Outcomes

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

1. explain the operation of building fire services
2. identify and apply the relevant standards for building fire services
3. describe the relationship between fire brigade intervention and fire safety design
4. assess the adequacy of building fire safety system designs

## Subject Content

Building Fire Safety Systems  
Smoke Hazard Management  
Automatic Fire Detection  
Fire Hydrants  
Hose Reels and Extinguishers  
Fire Sprinklers  
Special Hazard Extinguishment  
Warning, communication signage and lighting  
Emergency Planning and Response  
Environment in which Fire Brigade Intervention Model operates  
The Fire Brigade Intervention Model  
Fire Brigade Operations  
Fire System Reliability  
Fire awareness  
Hazard reduction & performance based designs and servicing, maintenance and certification.

## 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
Quiz	Short quiz with 10 multiple choice questions.	10	N	Individual	Y
Essay	1500 words	20	N	Individual	Y
Quiz	Short quiz with 10 multiple choice questions.	10	N	Individual	Y
Essay	3000 words.	40	N	Individual	Y
Essay	1500 words	20	N	Individual	Y

Teaching Periods

## Spring (2025)

### Online

### Online

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View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=CIVL7012\\_25-SPR\\_ON\\_2#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=CIVL7012_25-SPR_ON_2#subjects))