

# 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/>)

**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

**Subject Contact** Sameera Wijesiri Pathirana (<https://directory.westernsydney.edu.au/search/name/Sameera Wijesiri Pathirana/>)

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))