

ENGR 7004 BUSHFIRE FIGHTING

Credit Points 10

Legacy Code 200500

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Description This subject describes the techniques, hardware and extinguishing agents used to fight and control bushfires and focuses on the logistics involved in ensuring safe, efficient and effective control. The content includes bushfire fighting strategies in the context of rural and interface environments, hazard reduction and brigade structure arrangements. The role of planning in supporting firefighting through water supply and access is also considered as are the findings from various Public Inquiries.

School Eng, Design & Built Env

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

Restrictions

Students must be enrolled in a postgraduate program.

Assumed Knowledge

This subject assumes that the student has undertaken undergraduate study in building surveying, planning or related areas or has gained the equivalent building construction 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. Identify the techniques, hardware and extinguishing agents used to fight and control bushfires;
2. Explain the varying logistics used in both the rural and urban interface during bushfires;
3. Evaluate the role of planning in supporting the firefighting effort during bushfires;
4. Evaluate the role of hazard reduction and its management for reducing fuels;
5. Implement firefighting strategies and incident control used to manage bushfire events.

Subject Content

Fire fighting techniques, hardware and extinguishing agents;
The rural and urban interface;
Planning and undertaking fire fighting operations;
Fire fighting strategies;
Hazard reduction management;
Hazard reduction;
Water supplies and access for developments;
Role of public inquiries

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
Short Answer	500 words	10	N	Individual	Y
Essay	1,000 words	20	N	Individual	Y
Report	2,000 words	40	Y	Individual	Y
Case Study	1,500 words	30	N	Individual	Y