

CPPBAL5XX1 Assess factors affecting bushfire behaviour

UNIT MODIFICATION HISTORY	
Release 1	<p>This version first released with CPP Property Services Training Package Release 15.0</p> <p>New Unit of competency</p>

Unit Code	CPPBAL5XX1
Unit Title	Assess factors affecting bushfire behaviour
Application	<p>This unit specifies the skills and knowledge required to observe, identify assess and document factors and conditions conducive to potential bushfire impact on development sites.</p> <p>The unit applies to individuals who are paraprofessional workers and have technical and theoretical knowledge on bushfires. They demonstrate autonomy, judgement and responsibility in a range of contexts within broad but established parameters, they possess communication and analytical skills to determine and transmit solutions to complex problems.</p> <p>No licensing, legislative or certification requirements apply to this unit at the time of publication.</p>
Prerequisite Unit	Nil
Competency Field	039905 Fire Technology
Unit Sector	TBC

ELEMENTS		PERFORMANCE CRITERIA	
Elements describe the essential outcomes.		Performance criteria describe the performance needed to demonstrate achievement of the element.	
1	Conduct site assessment	1.1	Identify site to assess from planning documents
		1.2	Coordinate site visit with stakeholders
		1.3	Conduct and record observations for bushfire potential according to current industry standards and workplace procedures
		1.4	Identify site specific hazards, assess risk and implement controls according to workplace procedures for site visits
2	Assess site conditions for potential bushfire risk	2.1	Orient plans/maps and locate key features on site
		2.2	Identify typical local seasonal weather conditions and likely impact on potential bushfire risk
		2.3	Determine current and potential site fuel loads from existing vegetation and site conditions
		2.4	Identify topographic information and consider impact on potential bushfire risk
		2.5	Identify potential sources of ignition for bushfire for site
3	Assess adjoining	3.1	Locate adjoining properties from maps and determine purpose and function

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	property conditions and potential for bushfire risk	3.2	Identify adjoining property vegetation cover and type
		3.3	Identify topographic information for adjoining properties
		3.4	Identify potential sources of ignition for bushfires on adjoining properties
		3.5	Assess adjoining properties characteristics and conditions for potential contributing factors for bushfire risk
4	Prepare summary report on bushfire risk for site	4.1	Consider bushfire behaviour and potential impact for site
		4.2	Assess identified factors and consider bushfire risk
		4.3	Collate observations for site and adjoining properties
		4.4	Prepare a summary report of likely bushfire risk

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FOUNDATION SKILLS

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

UNIT MAPPING INFORMATION	No equivalent unit
LINKS	The Companion Volume Implementation Guide for the CPP Property Services Training Package is available at: https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b

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TITLE	Assessment Requirements for CPPBAL5XX1 Assess factors affecting bushfire behaviour
PERFORMANCE EVIDENCE To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by:	
Conducting site assessments for at least 5 sites with different characteristics and analysing factors on each site for potential bushfire risk, including: <ul style="list-style-type: none">identifying and assessing the characteristics and factors for the site and adjoining property contributing to bushfire risk which must include:<ul style="list-style-type: none">vegetation typefuel load - ground, ladder and elevated fueltopographyseasonal climatic conditionsdocumenting potential bushfire risk.	
KNOWLEDGE EVIDENCE To be competent in this unit, a candidate must demonstrate knowledge of:	
<ul style="list-style-type: none">fire and the principles of development including:<ul style="list-style-type: none">fuelignitionoxygenwaste productsprinciples for extinguishing firefire progression from ignition to ashproperties of fire, heat and combustion including:<ul style="list-style-type: none">conduction, convection and radiant heat transfercommon types of fuel in rural and peri urban environments, including:<ul style="list-style-type: none">ground fuelladder fuelelevated fuelvegetation and fuel loading, including, natural landscapes andtopography and the movement of bushfirecommon sources of ignition for bushfires, including:<ul style="list-style-type: none">accidental human activity, including machinery, smoking, escaped fires, electrical power polesdeliberate human activity through vandalism and arsonnatural fires from lightning strikesfire generated embersradiant heatdirect flame contactimpact of weather conditions on bushfire, including:<ul style="list-style-type: none">temperaturehumidityrainwindfire generated micro environments	

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| <ul style="list-style-type: none">• burn patterns and relation to weather conditions• basic bushfire behaviour. |
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ASSESSMENT CONDITIONS

Assessors must satisfy the requirements for assessors contained in the Standards for Registered Training Organisations.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting where these skills and knowledge would be performed.

Candidates must have access to:

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| <ul style="list-style-type: none">• access to sites specified in the performance evidence• legislation, regulations, standards and codes of practice relevant to bushfire modelling• stakeholders. |
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LINKS

The Companion Volume Implementation Guide for the CPP Property Services Training Package is available at:

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