



Australian Government

Assessment Requirements for PUA FIR508

Develop and analyse the behaviour and suppression options for a wildfire

Release: 1

Assessment Requirements for PUAFIR508 Develop and analyse the behaviour and suppression options for a wildfire

Modification History

Release 1. This is the first release of this unit of competency in the PUA Public Safety Training Package.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements, performance criteria and range of conditions on at least one occasion and includes

- accessing and interpreting weather products including conducting weather analysis, consideration of fuels, using topographical information to predict fire behaviour and the selection fire prediction tools
- analysing and communicating key risks
- analysing factors impacting on wildfire and developing incident predictions
- applying topographical information to predict fire behaviour
- applying Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) organisational requirements
- conducting weather analysis
- considering fuels
- developing and maintaining maps and data information for fire predictions
- preparing and analysing fire suppression options including strategies and tactics consistent with incident objectives
- providing for use to an Incident Management Team (IMT) an accurate analysis and projection of fire spread and fire behaviour indicating probable and possible scenarios and an analysis of a range of appropriate fire suppression options
- selecting and applying fire prediction tools and references

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements, performance criteria and range of conditions and includes knowledge of

- conditions suitable for and limitations of fire suppression strategies and tactics
- effects of topography on fire behaviour
- fire behaviour including fire perimeter, fire size, growth and shape, fire whirls, flame characteristics such as height and depth, heat output and intensity, junction zones, rate of spread, smoke and spotting
- fire considerations and risks

- fire suppression strategies and tactics
- fire weather
- fuel and fuel assessment
- fuel types and fuel assessment techniques
- human, economic and environmental assets
- impact of weather on fire behaviour
- map information and data including
 - fire behaviour estimates
 - maps of fire spread estimated at time intervals as required by the incident management team with separate mapping for probable and possible scenarios
 - narrative regarding limitations, assumptions, prediction uncertainties and other comments to assist in the interpretation of data
- organisational documentation, policies and procedures
- sources of information relating to weather and fire behaviour
- types of fire prediction tools and references
- Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) organisational requirements including risk mitigation and categories of risk

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

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Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in industry approved simulated workplace operational situations that reflect workplace conditions.

Competency should be demonstrated over time in actual or simulated wildfire incidents

Resources for assessment must include access to

- a range of relevant exercises, case studies and/or simulations
- relevant and appropriate materials, equipment, tools and personal protective clothing and equipment currently used in industry including
 - a range of actual or simulated fires
 - a range of sources of information related to fire spread and behaviour
 - organisational templates for fire behaviour prediction
- applicable documentation including organisational procedures, industry standards, equipment specifications, regulations, codes of practice and operation manuals.

Links

PUA Training Package Companion Volume Implementation Guide is found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=3eca5672-6d5a-410b-8942-810d0ba05bbf>