



Australian Government

Assessment Requirements for PUA FIR407

Interpret and analyse fire weather information

Release: 1

Assessment Requirements for PUAFIR407 Interpret and analyse fire weather information

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 and performance criteria on at least one occasion and includes

- analysing, recording and communicating fire weather information and source data
- applying Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) organisational requirements
- collecting weather information by accessing recorded data, maps and web based products
- composing field observations
- interpreting topographic maps to assess effects on weather
- interpreting weather maps
- managing data and maintaining accurate records
- providing organisational personnel accurate analysis and projection of weather affecting an area and likely impact on fire behaviour

Knowledge Evidence

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

- effect of topography on weather and fire behaviour
- field observations including cloud type and cover, dew point, fire behaviour including rate of spread, flame height and spotting, fuel moisture content, temperature and relative humidity, wind speed, direction and gust and location and time of observation
- fire behaviour factors
- impact of weather on fire behaviour including size, growth and shape
- influences on weather
- observation, analysis and interpretation of weather signs
- organisational documentation, policies and procedures
- sources of data relating to weather and fire behaviour
- sources of weather information
- types of weather influence most likely to affect fire weather conditions including altitude and elevation, bodies of water, distance from coast, dry air subsidence inversion, Foehn winds, katabatic and anabatic winds, sea and land breezes, slope and aspect and wind channelling

- weather analysis including atmospheric stability, Bureau of Meteorology products and tools, Haines index, smoke dispersion, temperature inversions, wind changes
- weather data including air temperature, dewpoint, relative humidity, synoptic charts, wind direction, speed and gusts, drought factor and drought index
- weather forecasts
- Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) organisational requirements including risk mitigation

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.

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 sources for information related to weather conditions and fire behaviour and organisational templates for weather recording
- 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>