



Australian Government

CUAPYR412 Operate outdoor fireworks displays

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with CUA Creative Arts and Culture Training Package Version 5.0.

Application

This unit describes the performance outcomes, skills and knowledge required to apply correct handling and safety procedures when setting up, operating and dismantling outdoor fireworks displays.

The unit applies to those who work autonomously in a team environment as they take responsibility for managing risk and emergency procedures at fireworks displays, leading work teams, and communicating procedures and requirements to all those involved in outdoor fireworks displays.

Licensing and legislative requirements apply to this unit but vary according to state/territory jurisdictions.

Completion of this unit does not automatically qualify a person to obtain a licence to operate in any Australian state or territory.

Users are advised to check with the relevant licensing authority and work within the requirements and guidelines set down by those authorities.

This unit is closely based on work completed by the Queensland Department of Natural Resources and Mines.

Unit Sector

Media and Entertainment Production – Pyrotechnics

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for fireworks displays	1.1 Identify outdoor firework display requirements in consultation with required personnel 1.2 Discuss issues associated with use and operation of fireworks for displays with required personnel

ELEMENT	PERFORMANCE CRITERIA
	1.3 Establish manual and electric firing techniques for fireworks in line with current industry practices 1.4 Identify fireworks from physical features and markings 1.5 Follow procedures for the transport and storage of fireworks according to state or territory regulatory requirements
2. Set up fireworks displays	2.1 Determine the integrity of fireworks and their suitability for sites 2.2 Establish and manage exclusion zones and control measures for sites 2.3 Implement site safety measures that meet regulatory requirements and manage risk 2.4 Supervise the set-up of equipment and fireworks according to safety management systems 2.5 Monitor environmental factors to ensure safety
3. Operate fireworks	3.1 Commence immediate pre-display activities relating to health and safety according to state or territory regulatory requirements 3.2 Safely initiate fireworks in line with current industry practices 3.3 Maintain control of displays through monitoring and supervising others as required 3.4 Take required action where problems are identified 3.5 Supervise operations in ways that foster cohesion in the work team
4. Finalise work operations	4.1 Clean up and return display sites to owners in original condition 4.2 Complete other post-display activities and documentation as required 4.3 Evaluate effectiveness of operations and safety measures and note areas for improvement in consultation with required personnel

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Reading	Obtains information from written sources
Writing	Documents outcomes of evaluation of effectiveness of fireworks

SKILL	DESCRIPTION
	operations
Oral communication	• Obtains information by listening and questioning • Discusses ideas and solutions • Contributes information and expresses requirements using clear language
Self-management	• Takes responsibility for meeting legal and regulatory requirements within scope of own role • Follows workplace protocols
Teamwork	• Collaborates to achieve joint outcomes and takes a leadership role in work team to help facilitate effective group interaction
Planning and organising	• Adopts a methodical and logical approach to setting up and monitoring outdoor fireworks displays
Initiative and enterprise	• Recognises and takes responsibility for addressing predictable, and some less predictable, problems when operating outdoor fireworks displays • Identifies opportunities for improvement based on outcomes of evaluations
Problem solving	• Anticipates potential problems and takes action to minimise their effects

Unit Mapping Information

Supersedes and is equivalent to CUAPYR402 Operate outdoor fireworks displays.

Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1db201d9-4006-4430-839f-382ef6b803d5>

Assessment Requirements for CUAPYR412 Operate outdoor fireworks displays

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- operate outdoor fireworks displayed according to at least two different fireworks display requirements.

In the course of the above, the candidate must:

- identify fireworks that are faulty or not quality assured
- determine dangers and safety issues associated with pre-preparing fireworks off-site and on-site
- select and use fuses and manually initiate fireworks in a safe manner
- select, test and ignite fireworks with electric initiation equipment
- select and use securing devices and mortar tubes
- apply procedures for:
 - controlling unwanted ignitions and environmental changes
 - managing sites and crowds
- lead a work team during at least one outdoor fireworks display
- assess risks continuously throughout the fireworks display
- implement additional control measures when required
- complete post-display activities.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- meaning of exclusion zones, and the reasons for establishing them for outdoor fireworks displays
- issues that must be addressed in safety management systems

- current industry practices that must be considered when operating outdoor fireworks displays
- technical issues with fireworks and associated equipment that potentially affect their safe use
- commonly used fireworks that include cold sparks
- control systems used to operate fireworks displays
- potential risk factors to be taken into account when operating fireworks displays, and strategies to minimise and resolve them
- statutory requirements and current industry best practice in relation to the operation of outdoor fireworks displays.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes access to:

- fireworks display planning documentation
- a selection of fireworks and equipment (display site hardware), including examples of faulty, misfired, damaged fireworks and equipment and/or simulated representations of them
- a selection of electrical firing equipment
- typical work procedures for a specific display (as would be presented by a contractor)
- a suitable non-display site location, such as a workshop for practical demonstration and use of equipment, including electrical firing equipment
- a suitable display site
- applicable display approvals from the administering authority
- applicable legislative and administrative requirements, specific technical material and prescribed forms and documents
- actual or simulated malfunctions that cause abnormal clean-up activities
- personal record-keeping book.

Those seeking to assess competency in this unit must consult with the relevant state or territory licensing authority, and work within the requirements and guidelines set down by those authorities.

Significant health and safety issues impact on the delivery and assessment of skills in pyrotechnics. Assessment of these skills must therefore be undertaken in consultation with state or territory licensing authorities.

Assessors must be aware of, and consult with authorities on matters regarding, safety of personnel, safety of crowds and spectators, storage and transportation of pyrotechnic materials, and weather conditions. Assessors may need to meet additional requirements where stipulated by state or territory regulations.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

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