



Australian Government

CUASET412 Construct mechanical sets

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 construct set elements that are operated through mechanical devices in the screen, media, entertainment and events industries. It involves planning for the construction of mechanical sets, considering different construction options and finalising construction work.

The unit applies to those who work autonomously in a team environment as they take responsibility for ensuring that mechanical set pieces meet the creative requirements of productions. They may be responsible for supervising others.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Unit Sector

Visual Communication – Sets

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. Determine requirements for mechanical sets	1.1 Confirm requirements for mechanical sets in consultation with required personnel and with reference to production documentation 1.2 Identify and discuss construction and safety issues associated with constructing mechanical sets and plan accordingly 1.3 Consider budget and other constraints when planning work 1.4 Reach agreement on scope of own work and construction deadlines 1.5 Update construction plans to take account of discussions as required

ELEMENT	PERFORMANCE CRITERIA
2. Prepare for construction work	2.1 Select equipment and materials according to construction plans 2.2 Consider different construction options and adopt option that best meets production requirements 2.3 Calculate quantities of required materials
3. Complete construction work	3.1 Follow construction plans and create mechanical set pieces 3.2 Check items produced in terms of durability, quality of finish and suitability for production requirements 3.3 Seek feedback on work in progress and adjust construction techniques as required 3.4 Test operation of completed set pieces according to organisational policies and procedures 3.5 Contribute to evaluations of set construction processes and note ways to improve own work performance

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
Learning	Seeks the views of others to identify ways to improve own performance
Reading	Interprets production documentation in relation to own duties
Oral communication	- Obtains information by listening and questioning - Expresses views using clear language
Numeracy	Performs simple calculations when taking measurements and checking that expenditure on mechanical set elements meets budget allocations
Self-management	- Takes responsibility for decisions about when and how to complete tasks - Takes responsibility for meeting health and safety requirements in relation to constructing mechanical sets within scope of own role - Applies organisational procedures and meets expectations associated with own role - Makes decisions related to own role and takes responsibility for their outcomes

SKILL	DESCRIPTION
Teamwork	• Works collaboratively during performances to achieve production outcomes
Planning and organising	• Adopts a methodical and logical approach to the process of constructing mechanical sets • Manages time to meet work deadlines • Assesses information and ideas about mechanical devices and plans the most effective way to meet production requirements • Plans and organises own workload

Unit Mapping Information

Supersedes and is equivalent to CUASET402 Construct mechanical sets.

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 CUASET412 Construct mechanical sets

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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:

- construct set pieces that incorporate the use of mechanical devices for at least two different productions.

In the course of the above, the candidate must:

- follow safety procedures during construction
- work collaboratively with others during planning and construction.

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:

- ways in which mechanical set pieces can be used in productions and events
- issues and challenges that typically arise when constructing mechanical sets and strategies to address them
- industry-standard technology used to construct mechanical sets
- mechanical principles behind the following devices commonly used to construct mechanical set pieces:
 - cables
 - fulcrums
 - levers
- mechanical devices used to create different effects on stage
- safety issues associated with materials, tools and equipment used to construct mechanical sets.

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:

- equipment, tools and materials used to construct mechanical sets
- a work area where mechanical set pieces can be constructed safely.

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

Links

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