



Australian Government

CUASTA413 Operate flying systems

Release: 2

CUASTA413 Operate flying systems

Modification History

Release	Comments
Release 2	This version first released with CUA Creative Arts and Culture Training Package version 5.1. Version created to correct unit mapping error.
Release 1	This version first released with CUA Creative Arts and Culture Training Package version 5.0.

Application

This unit describes skills and knowledge required to operate manual and automated flying systems that raise and lower soft hangings and flats, and ‘fly’ scenery items into and out of performance spaces. It involves completing setup tasks for flying operations, flying elements of the set and completing wrap-up tasks.

The unit applies to those who work autonomously in a team environment as they take responsibility for ensuring the smooth operation of flying systems for productions in the entertainment and events industries.

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

Unit Sector

Media and Entertainment Production – Staging

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 flying operations	1.1 Obtain production documentation and clarify flying requirements in consultation with required personnel 1.2 Inspect fly tower and stage and identify modifications to be made to existing grid or infrastructure 1.3 Organise modifications in line with own level of responsibility and refer matters that need attention to required personnel

ELEMENT	PERFORMANCE CRITERIA
	1.4 Plan installation work according to safety guidelines and licencing requirements 1.5 Anticipate problems that may arise during installation, rehearsal and operational phases and plan accordingly 1.6 Obtain approval for weight loads plan and safe work methods statement 1.7 Plot and run through fly cues and confirm correct speed and timing of each cue 1.8 Modify cues as required in consultation with required personnel 1.9 Complete pre-show checks and confirm individual components of flying systems are ready for operation and comply with safety requirements 1.10 Execute pre-sets and document modifications as required
2. Fly set elements	2.1 Load counter-weight cradles for flying set elements in line with production requirements 2.2 Rig bridles, spreaders and other rigging equipment and create rigging points not covered by existing grids 2.3 Install and synchronise chain motors and winches as required 2.4 Install brailing lines as required 2.5 Install specialist staging elements according to production and safety requirements 2.6 Test installed equipment for functionality and adjust installation as required 2.7 Execute fly cues safely according to performance requirements 2.8 Where counterweight systems are used, keep flown loads and counterweights in balance or under control 2.9 Use brake system, handbrake or other stopping devices according to safety requirements 2.10 Use control systems according to instructions from required personnel 2.11 Identify problems with flying system operation and rectify or refer to required personnel according to organisational procedures and safety regulations
3. Complete post-show tasks	3.1 Reset flying elements at completion of performances according to organisational procedures and safety regulations 3.2 Inform required personnel of aspects of system operation that require attention 3.3 Contribute to evaluations of productions and implement recommendations 3.4 Organise maintenance of equipment as required 3.5 Participate in post-show debriefing sessions and note aspects of

ELEMENT	PERFORMANCE CRITERIA
	staging operations that could be improved in future productions 3.6 Review own work performance and adjust work practices accordingly

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	Interprets production documentation in relation to own duties
Writing	Completes workplace documentation
Oral communication	- Obtains information using listening and questioning techniques - Discusses ideas and solutions when operating flying systems
Numeracy	Calculates timings when plotting and modifying cues
Self-management	- Follows workplace protocols and safety procedures - Undertakes tasks in line with own level of responsibility
Teamwork	Works collaboratively
Planning and organising	- Adopts a methodical and logical approach to operating flying systems - Applies a knowledge of staging and flying systems to work activities
Initiative and enterprise	Implements improvements based on outcome of evaluations of flying operations
Problem-solving	Recognises and takes responsibility for addressing predictable, and some less predictable, problems when operating flying systems
Technology	Flies production elements using control desks and manual systems

Unit Mapping Information

No equivalent unit. Supersedes and is not equivalent to CUASTA403 Operate flying systems.

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 CUASTA413 Operate flying systems

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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 flying systems for at least two different productions.

In the course of the above, the candidate must:

- follow safety procedures
- use communication systems according to organisational procedures and safety requirements
- use flying systems within their rated capacity
- work collaboratively with others involved in the production.

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:

- issues and challenges that typically arise when operating flying systems that include the issues of dynamic and static forces, and solutions to address them
- link between flying and other aspects of productions and the range of elements that are commonly flown
- safety issues that impact on flying systems, including regulations about the scope of work that can be undertaken by unlicensed personnel and emergency procedures
- sequencing, timing and speed requirements for flying systems in a range of productions
- communication systems and correct signals to use when operating flying systems
- organisational procedures for operating flying systems

- industry standard automated flying systems and the key principles of their use
- counterweight systems, including:
 - loading and unloading cradles
 - safe working loads
 - single and double purchase
 - spreading the load
 - swinging bars
 - where to hang lighting bars and masking.

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:

- venue in which a theatrical flying system is installed
- production that requires the operation of flying systems.

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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