

Title	Install, operate and remove rigging equipment for a performance or event		
Level	4	Credits	20

Purpose	People credited with this unit standard are able to: interpret a method statement; select rigging equipment to meet the requirements of a rigging plan; implement the rigging plan to meet the requirements of the method statement; prepare for and install rigging equipment; monitor the safe operation of rigging equipment; pack out, transport and store rigging equipment safely; and complete post production rigging plan requirements.
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Classification	Performing Arts General > Entertainment and Event Technology
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Available grade	Achieved
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Guidance Information

- 1 Recommended skills and knowledge: Unit 17600, *Explain safe work practices for working at heights*.
- 2 All learning and assessment leading to this unit standard must be carried out in accordance with the following as relevant:
 - legislation including Health and Safety at Work Act 2015 and subsequent amendments;
 - current industry best practice and industry guidelines (where available) including *Safe Rigging Practices for the Entertainment Industry in New Zealand*, June 2015, and *A Guide for Safe Working Practices in the New Zealand Theatre & Entertainment Industry*, April 2011, or replacements that supersede these guidelines, available from the WorkSafe website, www.worksafe.govt.nz.
- 3 The Entertainment and Event Technology programme guidance document should be consulted when developing assessments leading to this unit standard. It can be found at www.skillsactive.org.nz.
- 4 Technical skills must be demonstrated across a range of performances and events, including a minimum of five complex events.

5 Definition

Complex events are defined as having technical complexity and must meet at least three of the following criteria:

- audience or guest capacity > 500
- hours of technical production > 150 hours
- production budget (covering technical and staffing requirements for rigging, lighting, video, live sound, stage mechanics and scenic construction) > \$100,000
- quantity of Performers/Presenters > 20
- length of time in the venue (or venues if a touring production) > 7 days.

Outcomes and performance criteria

Outcome 1

Interpret a method statement for a performance or event.

Performance criteria

1.1 Explain the purpose and benefits of method statements in accordance with safe work practice.

1.2 Interpret a method statement for a performance or event.

Range may include but is not limited to – risk analysis of site specific conditions, working at height, selection of lifting accessories and lifting appliances, redundancy of the rigging system, installation and removal of the rigging system, and show operations-rigging.

Outcome 2

Select rigging equipment to meet the requirements of a rigging plan for a performance or event.

Performance criteria

2.1 Select equipment to suit a rigging plan, in accordance with manufacturers' specification and organisational requirements.

2.2 Describe factors to be considered for selection and conditions for rejection of rigging equipment based on manufacturers' guidelines and safe work practices.

Range working load limits, environment, materials of construction.

2.3 Select temporary and permanent materials used for fixing, anchoring, bracing, supporting, and securing the load in accordance with manufacturers' guidelines and industry good practice.

2.4 Determine rigging point loads using simple calculation and use truss manufacturer's data to select truss to support the weight of production equipment.

- 2.5 Select rigging accessories based on rigging plan requirements and safe work practice.
- 2.6 Select lifting appliances based on rigging plan requirements and safe work practice.
- 2.7 Inspect goods lifts, catwalks, stairs, and mobile elevating work platforms for accessibility and check for current compliance.
- 2.8 Select and assemble custom or specialist rigging equipment in accordance with the rigging plan.

Outcome 3

Implement the rigging plan to meet the requirements of the method statement.

Performance criteria

- 3.1 Undertake pre-use inspection and checks on equipment in accordance with method statement and organisational procedures.
- 3.2 Undertake maintenance checks in accordance with organisational procedures.
- 3.3 Implement method statement requirements in accordance with organisational procedures.
- 3.4 Ensure the worksite is clean, ready for work and all rigging equipment is currently serviced, maintained and stored in accordance with organisational procedures.
- 3.5 Check the specifications of rigging equipment to ensure it meets the rigging plan and specified load movement requirements.
- 3.6 Prepare secondary suspensions according to the risk analysis and venue specific requirements.
- 3.7 Monitor existing and potential hazards according to method statement and rescue plan requirements.

Outcome 4

Prepare for and install rigging equipment for a performance or event.

Performance criteria

- 4.1 Complete planning and preparation for transporting rigging equipment to the site in accordance with organisational requirements.
- 4.2 Prepare the site using signage, barriers and exclusion zones and restricted areas in accordance with site requirements and safe work practice.
- 4.3 Monitor and respond to changing site conditions.

- 4.4 Select and operate access equipment in accordance with the method statement and site requirements.
- 4.5 Select and use personal protective equipment (PPE) appropriate to the job in accordance with manufacturers' requirements.
- 4.6 Select and assemble rigging equipment on site, and prepare and check in accordance with rigging plan and site conditions.
- 4.7 Recheck working load limits of rigging equipment in accordance with the rigging plan.
- 4.8 Complete rigging of points and slinging of loads in accordance with the rigging plan.
- 4.9 Use knots and hitches in accordance with industry good practice.
- 4.10 Test operation of lifting equipment and prepare for initial lift to working height.
- 4.11 Use industry terminology for rigging technician roles during the pack-in, performance, pack out and removal phases of the production process in accordance with industry good practice.
- 4.12 Use theatre, arena and event terminology to communicate information throughout the production process.
- 4.13 Select and use hand tools to meet the requirements of the method statement, organisational and workplace requirements.

Range minimum of three different hand tools.
- 4.14 Maintain hand tools according to manufacturers' guidelines and safe work practice.

Outcome 5

Monitor the safe operation of rigging equipment.

Performance criteria

- 5.1 Complete attachment of load according to rigging plan requirements, organisational procedures and manufacturers' requirements.
- 5.2 Carry out pre-operational checks and operate lifting appliances to move loads in accordance with rigging plan requirements and operational requirements.
- 5.3 Use fall protection systems in accordance with safe work practices.
- 5.4 Install secondary suspensions in accordance with the risk analysis and operational requirements.

- 5.5 Monitor and respond to site conditions and resolve issues arising during the performance or event.

Outcome 6

Pack out, transport and store rigging equipment safely in accordance with organisational requirements.

Performance criteria

- 6.1 Complete the derig and pack out of equipment in accordance with production and operational requirements.
- 6.2 Pack rigging equipment in accordance with industry good practice.
- 6.3 Store or transport equipment from the site in accordance with organisational procedures and industry good practice.

Outcome 7

Complete post production rigging plan requirements.

Performance criteria

- 7.1 Complete health and safety rigging plan documentation to meet workplace requirements for inspections, registers and reviews.
- 7.2 Identify unsafe and faulty equipment, remove from service and report as required.
- 7.3 Action storage requirements and report any damage to rigging equipment.

Planned review date	31 December 2022
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	28 September 2017	N/A

Consent and Moderation Requirements (CMR) reference	0099
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Skills Active Aotearoa Limited info@skillsactive.org.nz if you wish to suggest changes to the content of this unit standard.