

<b>Title</b>	<b>Disassemble and assemble launch vehicle components</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	People credited with this unit standard are able to: prepare to disassemble and assemble launch vehicle components; disassemble launch vehicle components; assemble launch vehicle components; and complete finishing activities related to the disassembly and assembly of launch vehicle components.
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<b>Classification</b>	Aeronautical Engineering > Aerospace Engineering
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 All tasks must be carried out in accordance with enterprise procedures.
- 2 Definition  
*Enterprise procedures* – procedures used by the organisation carrying out the work and applicable to the tasks being carried out. Examples are – standard operating procedures, safety procedures, equipment operating procedures, codes of practice, quality management practices and standards, procedures to comply with legislative and local body requirements.
- 3 Disassembly and assembly activities are those usually carried out in a specialist bay or workshop.
- 4 Assembly and disassembly may include liquid and gas handling and regulating valves, regulators, plumbing, liquid and gas monitoring sensors and systems, mechanical system components, excludes components exposed to cryogenic conditions, excludes functional testing of components.

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### Outcomes and performance criteria

#### Outcome 1

Prepare to disassemble and assemble launch vehicle components.

#### Performance criteria

- 1.1 Task is determined by reviewing maintenance documentation and manuals.
- 1.2 Launch vehicle component identity is confirmed with documentation by comparing serial and part numbers.

- 1.3 Work area is prepared, and resources are obtained and checked for serviceability.
- Range may include but is not limited to – publications, tools, equipment, safety equipment, safety devices fitted, hazard symbols displayed, environmental conditions established.
- 1.4 Support equipment is positioned.
- 1.5 Defects are reported and documented.
- 1.6 Next task is determined and documented.
- Range may include but is not limited to – assemble, locate defects, repair, overhaul, check, adjust, complete the task.

## Outcome 2

Disassemble launch vehicle components.

### Performance criteria

- 2.1 Launch vehicle components are disassembled.
- Range clean, label, preserve, segregate, store.
- 2.2 Defects found during disassembly are reported and documented.
- 2.3 Inspections are obtained.

## Outcome 3

Assemble launch vehicle components.

### Performance criteria

- 3.1 Equipment and personnel are earthed and/or bonded.
- 3.2 Launch vehicle components are checked.
- Range may include but is not limited to – security and alignment of components, torque, lubricate, clean, inspect, plugs, wires and safety devices fitted.
- 3.3 Launch vehicle components are assembled.
- 3.4 Prepared launch vehicle components are checked to prevent interference.
- 3.5 Inspections are obtained.

**Outcome 4**

Complete finishing activities related to the disassembly and assembly of launch vehicle components.

**Performance criteria**

- 4.1 Launch vehicle components are prepared for use, storage, or transit.
- Range may include but is not limited to – labelling, locking, inhibiting, blanking, packing.
- 4.2 Completion activities specific to the task and work area are carried out.
- Range may include but is not limited to – tool control, cleanliness, tidiness, return of publications.
- 4.3 Resources are checked for serviceability and returned to service or storage.
- Range may include but are not limited to – tools, equipment, safety equipment.
- 4.4 Leftover parts and materials are disposed of.
- Range may include but is not limited to – serviceable, unserviceable, surplus, waste, scrap, hazardous.
- 4.5 Documentation is completed.
- 4.6 Work area is left in a state that enables the next task to begin.

<b>Planned review date</b>	31 December 2027
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	23 April 2020	N/A
Rollover and Revision	2	27 June 2024	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0028
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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 Ringa Hora Services Workforce Development Council [qualifications@ringahora.nz](mailto:qualifications@ringahora.nz) if you wish to suggest changes to the content of this unit standard.