



Australian Government

Department of Education, Employment and Workplace Relations

PUADEFLS008B Maintain, install and remove restraint systems

Revision Number: 1

PUADEFLS008B Maintain, install and remove restraint systems

Modification History

Not applicable.

Unit Descriptor

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This unit covers the competency required to maintain, install and remove restraint systems.

This Unit of Competency is applicable to a range of ***personal restraint systems***.

Maintaining a restraint system includes inspecting, isolating faults, replacing, repairing and cleaning prior to returning the item to service. Maintenance can be conducted in-situ or the item can be removed to a maintenance facility.

Installing a restraint system involves attachment to a parent system.

Application of the Unit

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The application of this unit in the workplace - the environments, complexities and situations involved - will be written during Phase II of the Review of the PUA00 Public Safety Training Package.

This text will be useful for the purposes of job descriptions, recruitment advice or job analysis; where possible, it will not be too job specific to allow other industries to import it into other Training Packages, where feasible.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite Unit/s Nil

Employability Skills Information

Employability Skills This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a Unit of Competency.

Performance Criteria describe the required performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the Required Skills and Knowledge and/or the Range Statement. Assessment of performance is to be consistent with the Evidence Guide.

Elements and Performance Criteria

ELEMENT

PERFORMANCE CRITERIA

1. **Maintain restraint belts/harnesses**

- 1.1 Restraint belts/harnesses are inspected for serviceability in accordance with ***standard procedures***
- 1.2 Identified ***faults*** beyond own authority to rectify are reported to supervisor and faulty restraint system is quarantined
- 1.3 Unserviceable parts of a quick release fitting are inspected, tested and replaced
- 1.4 Unserviceable ***parts of the restraint belts/harnesses*** are replaced to render restraint system serviceable in accordance with standard procedures
- 1.5 Basic restraint belts/harnesses stitching repairs are completed in accordance with standard procedures
- 1.6 Restraint belts/harnesses are cleaned in accordance with standard procedures
- 1.7 Restraint belts/harnesses are presented for inspection by supervisor and work is not progressed until supervisor has completed inspections in accordance with standard procedures
- 1.8 Relevant documentation is completed in accordance with standard procedures

2. **Install and remove restraint systems**

- 2.1 Authority to fit or remove restraint system is obtained in accordance with standard procedures
- 2.2 Restraint system is fixed or removed from parent system in accordance with standard procedures
- 2.3 Restraint system is presented for inspection by supervisor and work is not progressed until supervisor has completed inspections in accordance with standard procedures
- 2.4 Relevant documentation is completed in accordance with standard procedures

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This describes the essential skills and knowledge and their level, required for this unit.

Required Skills

- apply basic sewing techniques associated with the maintenance of restraint systems
- handle, store and organise transport of equipment
- information technology skills to access and input to documentation
- liaise with outside agencies relating to maintenance activities
- literacy skills for comprehending and interpreting documentation which may include:
 - aircraft documentation
 - maintenance documentation
 - survival and distress pyrotechnic documentation
 - maintenance and servicing schedules
 - flying schedules
 - technical publications
 - technical drawings
 - Material Safety Data Sheets (MSDS)
- operate an industrial sewing machine
- operate and maintain personal protective equipment
- problem solving skills for a limited range of differing procedural circumstances
- raise and complete maintenance documentation
- use hand sewing techniques
- use relevant hand and power tools
- use testing and measuring equipment in accordance with approved methods
- work with others and in a team by recognising dependencies and using cooperative approaches to optimise workflow and productivity

Required Knowledge

- approved cleaning methods for aviation life support equipment
- components of a restraint system and their function
- critical nature of maintaining and fitting restraint systems
- different aviation trades and how they relate to each other
- flight line procedures
- handling, storage and transit procedures relating to life support equipment
- industrial sewing machine operation
- legal responsibilities
- modification requirements for restraint systems
- procedures in relation to organisation and aviation industry
- quality systems and standards

REQUIRED SKILLS AND KNOWLEDGE

- reading and interpreting specifications
- relevant legislation and procedures in relation to aviation industry
- relevant OH&S regulations/requirements, precautions, equipment, material and personal safety requirements
- repair limitations for restraint systems
- tool control procedures
- types of corrosion and contamination that may affect restraint systems
- ultraviolet degradation
- use of aviation industry documentation
- use of maintenance documentation

Evidence Guide

EVIDENCE GUIDE

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EVIDENCE GUIDE

Critical aspects for assessment and evidence required to demonstrate competency in this unit

Assessment must confirm the ability to recognise limits of own authority; and to recognise a range of faults and their serviceability and repair limitations/tolerances including verification of expiry date of restraint system component parts and recognition of incorrect manufacture.

Consistency in performance

Competency should be demonstrated over time with a range of restraint system fitting and maintenance activities.

Context of and specific resources for assessment

Context of assessment

Competency should be assessed in the workplace or in a simulated workplace environment.

Specific resources for assessment

Access to harness components, harness webbing for repairs, industrial sewing machine tools and equipment for maintaining and fixing a restraint system, quick release fittings and components.

Guidance information for assessment

Information that will assist or guide assessment will be written during Phase II of the Review of the PUA00 Public Safety Training Package.

Range Statement

RANGE STATEMENT

The Range Statement relates to the Unit of Competency as a whole. It allows for different work environments and situations that may affect performance. ***Bold italicised*** wording in the Performance Criteria is detailed below.

Personal restraint systems may include	Fixed point attached harness Passenger restraint belts Retractable restraint harnesses (will be attached to inertia reel but the inertia reel does not form part of the restraint system)
Standard procedures may include	Australian Standards Equipment manufacturers' specifications and procedures Industry practices Maintenance schedules Occupational health and safety (OH&S) requirements Organisational instructions/journal Regulatory requirements
Faults may include	Broken quick release fitting springs Broken stitching Contamination Corrosion (e.g. fittings) Damaged hardware Damaged quick release fitting screws Excessive wear Expired date of restraint components Incorrect manufacture Pulled threads Seised quick release fitting lugs Tears/cuts Ultraviolet degradation
Parts of the restraint belts/harnesses may include	Belt Fixed point attachment line Hardware (e.g. buckles)

RANGE STATEMENT

Harness
Quick release fittings including lugs, springs and screws

Unit Sector(s)

Not applicable.

Corequisite Unit/s**Co-requisite Unit/s**

Nil