Australian Government
Department of Education, Employment and Workplace Relations

PUADEFEO803A Conduct static proof tests

Revision Number: 1

ISC INDUSTRY SKILLS COUNCILS
Creating Australia's Future

PUADEFEO803A Conduct static proof tests

Modification History

Not applicable.

Unit Descriptor

Unit Descriptor	This unit covers the competency required to conduct static proof tests in the explosive ordnance environment.
	Explosive ordnance static proof tests are conducted to ensure weapons systems or explosive ordnance in service with the Australian Defence Force meets the required standards. The static proof tests are a common component of explosive ordnance quality assurance and involve a number of personnel both in their planning and implementation.
	This unit does not cover the planning of static proof tests, which is covered in PUADEFEO602C Plan explosive ordnance trials.

Application of the Unit

Application of the Unit	This unit was developed for proof testing specialists working within proof and experimental organisations in Defence but is applicable to any individual in this field of work.
	Typically these individuals must demonstrate the ability to work as individuals and as part of a team under direct and/or indirect supervision, use discretion and judgement, and take responsibility for the quality of their output. All activities are carried out in accordance with relevant organisational policies and procedures.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

Employability Skills   This unit contains employability skills.

Pre-requisite Unit/s   Nil

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. **Prepare for static proof tests**	1.1 *Stakeholders* and test participants are briefed in accordance with *organisational policies and procedures*, and *test plan*
	1.2 Safety systems and procedures are checked and initiated in accordance with organisational policies and procedures, and test plan
	1.3 Information on resource requirements and availability is obtained and confirmed in accordance with procedures
	1.4 *Information support systems* for *static proof tests*, including achievable reporting and recording processes, are prepared in accordance with resource requirements
	1.5 Coordination issues with others affected by the tests are negotiated and resolved
	1.6 Safety traces are constructed when required, in accordance with standard procedures
	1.7 Occupational health and safety (OH&S) principles and requirements are identified and observed throughout the test process
2. **Conduct tests**	2.1 Static proof test planners are identified and liaison is effected in accordance with policies and procedures
	2.2 Test plan is implemented, monitored and amended based on changing circumstances in accordance with *methodologies and procedures*
	2.3 *Resources* are allocated to testing tasks in accordance with the test plan and resource availability
	2.4 Data being generated by tests is recorded in accordance with agreed methodology

ELEMENT	PERFORMANCE CRITERIA
3. **Report on test results**	3.1 Data generated by the test is collected and reported in accordance with policies and procedures
	3.2 Options and recommendations resulting from the test are provided in a ***clear and comprehensive format***
	3.3 Post testing reports, statistical reports and other records are produced and maintained in accordance with requirements

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required Skills

- allocate resources
- apply organisationalOH&S requirements
- apply organisational safety policies and structures
- assess risks
- communicate effectively with stakeholders
- coordinate activities
- evaluate information
- liaise effectively with stakeholders
- write reports

Required Knowledge

- evaluation processes
- organisationalOH&S requirements
- organisational safety policies and structures
- reporting procedures
- resource allocation procedures
- resource requirements
- risk assessment
- static proof testing methodologies

Evidence Guide

EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for this Training Package.

Critical aspects for assessment and evidence required to demonstrate competency in this unit	Assessment must confirm the ability to apply static proof tests methodologies and procedures including the coordination of test resources and the documentation of test results.
	Consistency in performance
	Competency should be demonstrated in a range of actual or simulated static proof tests contexts.
Context of and specific resources for assessment	**Context of assessment**
	Competency should be assessed in the workplace or in a simulated work environment, in accordance with all relevant legislation and organisational requirements.
	Specific resources for assessment
	Access is required to:
	• facilities and resources used in conducting static proof tests in a research environment.

EVIDENCE GUIDE

Method of assessment	This unit may be assessed with the following unit:
	• PUADEFEO101D Work safely with explosive ordnance.
	In a public safety environment assessment is usually conducted via direct observation in a training environment or in the workplace via subject matter supervision and/or mentoring, which is typically recorded in a competency workbook.
	Assessment is completed using appropriately qualified assessors who select the most appropriate method of assessment.
	Assessment may occur in an operational environment or in an industry-approved simulated work environment. Forms of assessment that are typically used include:
	• direct observation
	• interviewing the candidate
	• journals and workplace documentation
	• third party reports from supervisors
	• written or oral questions.

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.

Stakeholders may include	Clients or customers (internal and external)
	End user/s
	General public
	Industry
	Landowner/s
	Organisation's senior management
	Other agencies
	Other functional areas within the organisation
	Project teams
	Relevant interest groups
	Sponsor/funding bodies
	Steering committee members
	Supplier/service provider
	Unions
Organisations may include	Defence
	Defence contractors and sub-contractors
	Defence Materiel Organisation
	Defence Science and Technology Organisation
	International test agencies
Policies and procedures may include	Government and organisational policy, guidelines and procedures relating to: • delegation approvals • industrial agreements • procurement guidelines • resourcing • risk management • security • strategic or operational plans • technical and regulatory framework • testing and evaluation

RANGE STATEMENT

	• training
	Relevant commonwealth, state/territory and local laws affecting organisation's administration such as:
	• financial management and accounting legislation and regulations
	• OH&S legislation
	• public sector management acts
Test plans may include	Acquisition strategies
	Budget and financial management strategy
	Contract management
	Cost estimates
	Evaluation criteria
	Expected/measurable outcomes
	Facilities
	Functional performance specifications
	Governance strategy
	Implementation strategy
	Inclusions and exclusions
	Information/communication strategy
	Intellectual property strategies
	Milestones
	Objectives
	Occupational concept document
	People plan including human resource management and human resource development
	Performance criteria/indicators
	Purpose
	Quality assurance
	Quality control
	Quality standards
	Rationale
	Required resources
	Resource management

RANGE STATEMENT

	Risk management
	Roles and responsibilities
	Safety criteria
	Schedule/timeline
	Specific equipment, instrumentation, and/or specialised facilities and required conditions
	Task/WBS
	Test and evaluation master plan (TEMP) criteria
	Test concept document
	Testing control mechanisms
	Testing deliverables and their acceptance criteria
Information support systems may include	Computerised systems
	Manual systems
Static proof tests may include	Environmental testing of explosive components
	Proof testing of non-firing and/or non-projecting explosive ordnance
	Proof testing of explosive components against specified standards
	Specific field testing which is not a normal component of laboratory testing
Methodologies and procedures may include	Those established by:
	• divisions
	• manufacturer
	• organisation
	Or may be specified by the client
Resources may include	Budgets
	Materials
	Personnel
	Time
Clear and comprehensive format may include	Development of new procedures for future activities
	Outcomes that can be easily understood
	Solutions to problems that were faced during the testing

RANGE STATEMENT

Unit Sector(s)

Not applicable.