



Australian Government

Department of Education, Employment and Workplace Relations

PUADEFCA202B Conduct field survey to determine fixation and orientation

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

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This unit covers the competency required to conduct a field survey to determine fixation and orientation. This survey is normally conducted by at least two people. One person will be the observer and one will record data. This unit of competency covers both roles.

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. Prepare for survey

- 1.1 Purpose and requirements of the survey are identified from written or oral instruction from supervisor
- 1.2 Specifications of the survey are confirmed and clarified with supervisor
- 1.3 Equipment required for the survey is selected and checked for serviceability in accordance with manufacturers' instructions

2. Conduct survey tasks

- 2.1 **Survey equipment** is operated to determine orientation and fixation as determined by the survey scheme
- 2.2 Data from the survey is recorded in field book or other proforma in accordance with organisational procedures and supervisor's instructions
- 2.3 Results are verified for omissions and errors by re-checking visual clues in measurements or actual data
- 2.4 **Survey data** is **communicated** in accordance with **standard procedures**
- 2.5 **Survey control points** are established and recorded in accordance with standard procedures
- 2.6 Supervisor and colleagues are communicated with regularly throughout the survey activity to ensure smooth operation and progress
- 2.7 Survey equipment is **maintained** 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

- use communication systems
- interpret data
- record information

Required Knowledge

- analytical processes
- characteristics, tabulated data and limitations of the survey equipment
- communication procedures
- principles of survey

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:

- use the following equipment:
- GPS orientation and fixation equipment
- gyroscopic orientation equipment
- angular measurement equipment (as an example theodolite)
- compass
- distance measurement devices
- work as part of a team
- work in a stressful environment.

Consistency in performance

Competency should be demonstrated over a range of actual survey tasks.

Context of and specific resources for assessment

Context of assessment

Competency should be assessed in an operational or simulated operational environment. The simulation should replicate the live environment where stress, fatigue and team work are key features.

Specific resources for assessment

Access to appropriate survey equipment and area.

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.

Survey equipment may include	Artillery gun laying system (gun mounted global positioning system (GPS) receiver systems) Artillery orienting system Director artillery Electronic distance measuring equipment Gyroscopic orientator Hand held GPS receiver Illumination equipment Manual distance measuring equipment Orienting equipment Other equipment Station markers Theatre grid system Theodolite
Survey data may include	Initialisation data Observations Measurements Templated and/or tabulated data
Communication of survey data may include	Combat net radios Digital Non-military networks Oral Verbal Visual Written
Standard procedures may include	Australian Standards Job guides, doctrinal pamphlets and other publications Manufacturers' handbooks, industry specifications and technical instructions Occupational health and safety (OH&S) regulations Organisational policies and procedures Relevant local government by-laws Relevant state/territory or federal legislation Verbal or written orders and job instructions
Survey control points may include	Bearing picquet Bench mark Calibration point

RANGE STATEMENT**Maintenance of survey equipment may include**

Fixed picquet
Point of change
Survey control point
Trigonometrical station
Calibration
Cleaning
Functionality checks
Lubricating
Non-technical inspection
Testing and adjusting

Unit Sector(s)

Not applicable.

Corequisite Unit/s

Co-requisite Unit/s	Nil
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