



Australian Government

ICTWOR401 Undertake a civil site survey

Release: 1

ICTWOR401 Undertake a civil site survey

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 2.0.

Application

This unit describes the skills and knowledge required to assess a site for a telecommunications project, including gathering information about the site and the project, surveying the site and evaluating the suitability of the site for the work.

It applies to individuals who work as technical staff with a range of telecommunications skills, involves a degree of autonomy and may include limited supervision of others.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Unit Sector

Telecommunications – workplace effectiveness

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for survey	1.1 Discuss detailed requirements and arrange access to site with key stakeholders 1.2 Examine regulatory and statutory requirements associated with telecommunications project 1.3 Determine need for specialist studies for site
2. Survey land, buildings and facilities	2.1 Survey existing buildings to assess capability of meeting changes required for project 2.2 Collect information through site survey 2.3 Determine environmental impact of development

	2.4 Estimate impact of prevailing weather conditions on planned changes 2.5 Assess and document building options should new structure be necessary 2.6 Assess geographical nature of land and determine barriers to signalling
3. Report findings and recommendations	3.1 Outline survey findings and recommendations to accommodate project requirements on site 3.2 Develop options to meet planned changes and associated cost-benefit data 3.3 Complete report and forward to relevant stakeholders following relevant procedures

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance

Skill	Performance Criteria	Description
Reading	1.2, 1.3, 2.3-2.5	Evaluates complex texts to determine key information, and specific requirements and responsibilities
Writing	1.1, 2.1, 2.2, 2.4-2.6, 3.1-3.3	- Develops written and complex diagrammatic material for a specific audience using appropriate forms and conventions - Records information in a sequential manner using clear and appropriate terminology for reference purposes
Oral Communication	1.1, 3.1, 3.3	Conveys details that incorporate evaluation of information and specialised and cohesive language in a format and style appropriate to a specific audience
Numeracy	2.1, 2.2, 2.5, 2.6, 3.2	Uses complex mathematical equations to calculate accurately required measurements and diagrams
Navigate the world of work	1.2, 3.3	Keeps up to date on changes to legislation or regulations relevant to own rights and responsibilities, and considers implications of these when negotiating, planning and undertaking telecommunications project work

		Recognises and follows explicit and implicit protocols and meets expectations associated with own role in relation to communication with stakeholders
Get the work done	1.1-1.3, 2.1-2.6	- Sequences and schedules survey activities, monitors implementation and manages relevant communication with stakeholders - Uses systematic, analytical processes in planning and implementing a survey, setting goals, gathering relevant information, and identifying and evaluating options against agreed criteria - Uses analytical processes to decide on a course of action, establishing criteria for deciding between options in relation to new structures and planned changes

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTWOR401 Undertake a civil site survey	ICTWOR4032A Undertake a civil site survey	Updated to meet Standards for Training Packages	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>

Assessment Requirements for ICTWOR401 Undertake a civil site survey

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Performance Evidence

Evidence of the ability to:

- negotiate with key stakeholders, enterprise personnel, clients, community representatives, specialists and other contractors on environmental and network needs
- accurately undertake a survey of environmental conditions, land, buildings and facilities for a telecommunications project
- apply legislative requirements to the project, including relevant operational codes, work health and safety (WHS) requirements and work practices
- report survey findings, outlining options and including recommendations with supporting reasons and coverage of existing and proposed needs.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- outline the background information required to undertake a civil site survey
- explain basic meteorology and weather conditions
- describe the features and operating requirements of construction equipment
- describe geographical barriers to signalling
- identify legislation, codes of practice and other formal agreements that impact on the work activity
- describe licensing and regulatory issues applying to a civil site survey on telecommunications sites
- outline soil testing methods and requirements
- describe
 - civil site safety practices
 - personal protective equipment for civil survey projects

- WHS requirements relating to surveys and site conditions
- outline typical issues and challenges that occur on site.

Assessment Conditions

Gather evidence to demonstrate consistent performance in conditions that are safe and replicate the workplace. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the telecommunications – workplace effectiveness field of work and include access to:

- a site for survey
- current equipment
- relevant regulatory and enterprise documentation.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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