



Australian Government

Department of Education, Employment and Workplace Relations

RTC3209A Plan and construct conventional fencing

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This competency standard covers the functions required to plan and construct conventional fencing. Conventional fencing refers to post and wire/wire netting under tension and can be used for animal control or as a deterrent for people and vehicles. It requires the application of skills and knowledge to identify and incorporate fencing needs and enterprise objectives into an efficient and cost-effective fence. It also requires the ability to match fencing requirements to the property's topography. It requires an awareness of workplace safety and environmental practices associated with maintenance activities. The work in this standard is likely to be carried out under routine supervision within enterprise guidelines.

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Application of the Unit

Not applicable.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

Not applicable.

Elements and Performance Criteria Pre-Content

Not applicable.

Elements and Performance Criteria

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Element	Performance Criteria
1 Determine fencing requirements	1.1 Fencing requirements are assessed and clarified according to enterprise objectives. 1.2 Equipment, materials and labour requirements are determined, and estimated costings are maintained within budgetary constraints. 1.3 Plan is prepared giving consideration to siting fences in relation to natural features and proposed uses. 1.4 Legal requirements associated with fencing construction are identified.
2 Prepare for construction	2.1 Proposed fencing is checked and verified against property maps and work plan. 2.2 Services, structures and features, which may impact on the fencing work, are identified and incorporated into the fencing plan. 2.3 Tools and fencing equipment (including safety equipment), are arranged and safely and efficiently transported to the work site. 2.4 Labour requirements are arranged and confirmed according to enterprise requirements. 2.5 Potential and existing hazards in the workplace are risk assessed and minimised according to OHS requirements.
3 Construct conventional fence	3.1 Suitable personal protective equipment is selected, used, maintained and stored according to OHS and enterprise requirements. 3.2 Fence lines are marked out and checked against work plan and property maps.

- 3.3 **Fence is constructed** according to work plan, OHS and enterprise requirements.
- 3.4 Gates are attached and appropriately positioned for **correct operation** and function according to work plan.
- 3.5 All work is carried out safely according to OHS and enterprise requirements.
- 4 Complete fencing operations
 - 4.1 Work site is **cleared and tidied** and all waste is disposed of in an environmentally responsible manner.
 - 4.2 Tools and fencing equipment are transported safely from the work site and stored according to manufacturers recommendations and enterprise requirements.
 - 4.3 Tools and equipment faults or malfunctions are reported for repair or replacement according to enterprise requirements.
 - 4.4 Relevant information is recorded and maintained according to enterprise requirements.

Required Skills and Knowledge

Not applicable.

Evidence Guide

What evidence is required to demonstrate competence for this standard as a whole?

Competence in this standard requires evidence of the ability to develop conventional fencing plans and implement its construction. It requires the ability to access and interpret plans, arrange surveys and analyse results, calculate cost structures, obtain legal authorisations for development, and provide alternative options. Evidence must also be demonstrated in an awareness of legislative requirements associated with planning and construction activities. The skills and knowledge required to plan and construct conventional fencing must be **transferable** to another rural environment.

For example, this could include different fencing situations, materials, terrain and environments.

What specific knowledge is needed to achieve the performance criteria?

Knowledge and understanding are essential to apply this standard in the workplace, to transfer the skills to other contexts and to deal with unplanned events. The knowledge requirements for this competency standard are listed below:

Issues affecting property fence planning and construction.

Procedures for planning fencing in relation to the whole property plan.

Range of fencing designs, construction methods and materials.

Types of fencing construction tools and equipment.

Fencing materials and costings.

Common fencing hazards and safety precautions.

OHS legislative requirements and Codes of Practice.

Relevant Codes of Practice with regard to the protection of the environment.

Hazard identification, assessment and control.

What specific skills are needed to achieve the performance criteria?

To achieve the performance criteria, appropriate literacy and numeracy levels as well as some complementary skills are required. These include the ability to:

Draft fencing plans and specifications.

Cost fencing plans.

Arrange and purchase supplies.

Demonstrate safe workplace practices.

Minimise environmental impacts.

Read and interpret plans.

Consult with and report to management.

Calculate and measure fencing requirements and calculate costings.

What processes should be applied to this competency standard?

There are a number of processes that are learnt throughout work and life, which are required in all jobs. They are fundamental processes and generally transferable to other work functions. Some of these are covered by the **key competencies**, although others may be added. The questions below highlight how these processes are applied in this competency standard. Following each question a number in brackets indicates the level to which the key competency needs to be demonstrated where 0 = not required, 1 = perform the process, 2 = perform and administer the process and 3 = perform, administer and design the process.

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| 1. How can communication of ideas and information (1) be applied? | Information with regard to fencing requirements and planning may be sourced from management and the property network. |
| 2. How can information be collected, analysed and organised (1) ? | Information with regard to the type of fencing, siting details and resource requirements may be prepared and included in a plan. |
| 3. How are activities planned and organised (1) ? | Activities involving the purchasing of materials and arranging their transportation to worksite may be planned and arranged prior to work schedule. |
| 4. How can team work (1) be applied? | In the application of methods and procedures to construct fencing according to plan within timeframes and health and safety meetings. |
| 5. How can the use of mathematical ideas and techniques (1) be applied? | Basic mathematical techniques may be applied in quantity surveying, costing alternatives and measuring and drafting. |
| 6. How can problem-solving skills (1) be applied? | Problems of topography, stock pressures, location of gates may be solved by revising and making changes to the fencing plan. |
| 7. How can the use of technology (1) be applied? | Technology may be used to communicate, process information and assist in construction processes. |

Are there other competency standards that could be assessed with this one?

This competency standard **could** be assessed on its own or in combination with other competencies relevant to the job function.

There is essential information about **assessing this competency standard for consistent performance** and **where and how it may be assessed**, in the Assessment Guidelines for this Training Package. All users of these competency standards must have **access** to both the **Assessment Guidelines** and the relevant **Sector Booklet**.

Range Statement

Range of Variables

The Range of Variables explains the range of contexts within which the performance and knowledge requirements of this standard may be assessed. The scope of variables chosen in training and assessment may depend on the work situations available

What may be identified in **fencing requirements**?

This may include types of fencing and the purposes for which it is to be used.

What **equipment and materials** may be required for the construction of fences?

This may include post driver, post hole diggers, fencing pliers, wire strainers, wire cutters, wire spinners, shovel, crowbar/rammer, brace and bit, drill, fencing wire might include: plain, barbed, ringlock, netting, posts, droppers, wire, staples, gates, hinges and chains.

What information may be included for consideration in a fencing **plan**?

This may include the type of materials required and costs, type of stock/animal/people control required, soils, topography, water, layout of site/land to be fenced, machinery use and access.

What information may be included in a **work plan**?

This may include designated work tasks, allocated tools and equipment, materials requirements, procedures for pre-start and safety checks of tools and equipment, timeframe for work completion, managers instructions and reporting requirements.

What may be involved in the **efficient** transport of tools and equipment?

This may involve methods and procedures to minimise possible damage or loss to tools, equipment and personnel.

What **enterprise requirements** may be applicable to this standard?

Standard Operating Procedures (SOPs), industry standards, production schedules, Material Safety Data Sheets (MSDSs), work notes and plans, product labels, manufacturers specifications, operators manuals, enterprise policies and procedures (including waste disposal, recycling and re-use guidelines), and supervisors oral or written instructions.

What **hazards** may be relevant to this standard?

This may include exposure to hazardous noise, dust solar radiation and adverse weather conditions, PTO shafts, manual handling, trip or uneven surfaces, splinters,

	insect, spider and snakebites, and wire breakage when straining. It may also include electricity associated with powered tools.
What OHS requirements may be applicable to this standard?	Safe systems and procedures for: the use of fencing tools and equipment the operation of vehicles hazard and risk control lifting, carrying and handling techniques manual handling especially when handling posts and coils of wire and using a rammer the use, maintenance and storage of personal protective equipment outdoor work including protection from solar radiation protection from dusts the administration of first aid.
What personal protective equipment may be relevant to this standard?	This may include boots, overalls, gloves, eye protection, hearing protection, respirator or face mask, and sun protection.
What may be involved in the construction of a fence ?	This may include constructing end assemblies, positioning marker wire, installing and securing intermediate posts along the marker wire, attaching wires to posts which are then joined, strained and fixed using correct knots. It may also include laying out and securing droppers to the wires.
When might gates be determined as operating correctly ?	Gates are attached to a gate post, hung, swung and secured for closure.
What may be involved in clearing and tidying a work site?	This may involve replacing dirt, and the removal and safe disposal of waste.
For more information on contexts, environment and variables for training and assessment, refer to the Sector Booklet.	

Unit Sector(s)

Not applicable.