

Domain
Title:
Level: 4

CARPENTRY
Plan and construct ceilings

Unit ID: 1609

Credits: 6

Purpose

This unit standard specifies the competencies required to plan and construct ceilings. It includes planning and preparing for work, locating ceiling joists, installing hanging beams and installing ceiling lining.

This unit standard is intended for those who work as carpenters.

Special Notes

1. Entry information:

Prerequisite:

- *1157-Demonstrate basic knowledge of workplace health and safety or demonstrated equivalent knowledge and skills.*

2. To demonstrate competence, at a minimum, evidence is required of constructing ceiling frame to include timber and metal components and may include synthetic materials. Construction of ceiling frames is to be completed in conjunction with the roof members. Selection of hangers and composite beams will be determined by the building geometry and roof pitch.
3. Assessment evidence may be collected from a real workplace, or simulated real workplace in which carpentry operations are carried out.
4. Installation of hanging beams may be incorporated with strutting and composite beams. Hanging beams with end bearing are to be positioned such that full load distribution to the supporting wall frame is achieved. Ceiling lining to include tongue and groove cladding and soft boards.
5. Tools and equipment may include but are not limited to measuring tape or rule, spirit level, chisels, string lines, Roofing Square, staple gun, nail gun, nail bag, compressor, sanders, power drills, screw drivers, combination square, ladders and scaffolding.
6. Materials may include but are not limited to timber, metal, synthetic materials, nails, bolts, screws, patented fasteners and reconstituted timber products.
7. All inspection, operation and maintenance procedures associated with the use of tools and equipment shall comply with manufacturers' and company guidelines, instructions, and reasonable flat rate time.
8. Regulations and legislation relevant to this unit standard include the following:
 - Labour Act, No.11, 2007 as amended;
 - Occupational Health and Safety Regulations No. 18, 1997

and all subsequent amendments.

Quality Assurance Requirements

This unit standard and others within this subfield may be awarded by institutions which meet the accreditation requirements set by the Namibia Qualifications Authority and the Namibia Training Authority and which comply with the national assessment and moderation requirements. Details of specific accreditation requirements and the national assessment arrangements are available from the Namibia Qualifications Authority on www.namqa.org and the Namibia Training Authority on www.nta.com.na.

Elements and Performance Criteria

Element 1: Plan and prepare for work

Range

Planning and preparation include but are not limited to worksite inspection, equipment and materials defects identification, assessment of conditions and hazards and determination of work requirements.

Performance Criteria

- 1.1 Work instructions, including plans, specifications, quality requirements and operational details are developed and applied.
- 1.2 Safety requirements are followed in line with safety plans and policies.
- 1.3 Occupational health and safety requirements on constructing and installing ceilings on site operations are recognized and adhere to.
- 1.4 Sign and barricade requirements are identified and implemented.
- 1.5 Tools and equipment selected to carry out tasks are consistent with the requirements of the job, checked for serviceability and any faults rectified or reported prior to commencement.
- 1.6 Material quantity requirements are calculated in line with plans and/or specifications.
- 1.7 Materials appropriate to the work application are identified, obtained, prepared, safely handled and located, ready for use.
- 1.8 Process for making and assembling frames and ceiling covers is identified.
- 1.9 Drawings and specifications are interpreted so that project is correctly assembled.
- 1.10 Environmental protection requirements are identified and applied in line with environmental plans and regulatory obligations.

Element 2: Locate ceiling joists

Performance criteria

- 2.1 Ceiling frame components are identified and selected in line with safety specifications.
- 2.2 Location of ceiling joists are set out according to specifications and explained.
- 2.3 Cutting list is prepared in line with specifications.

Element 3: Install hanging beams

Performance criteria

- 3.1 Hanging beam sizes and spacing are identified and selected in line with safety specifications.
- 3.2 Hanging beams are installed according to specifications.

Element 4: Install ceiling lining

Range

Different types of ceiling material include wooden, metal, concrete, board and plastic.

Performance criteria

- 4.1 Ceiling linings are identified and selected in line with specifications.
- 4.2 Lining materials are installed in line with specifications.
- 4.3 Cornices and decorative features are installed in line with specifications.

Registration Data

Subfield:	General Construction
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