

Domain
Title:
Level: 4**JOINERY AND CABINET MAKING**
Assemble and install wooden stairs**Credits: 5****Purpose**

This unit standard specifies the competencies required to assemble and install wooden stairs. This includes selecting different types and designs of wooden staircases, selecting and preparing materials and wooden staircases components, assembling strings and newels, installing treads and risers, assembling and installing landings, installing handrail and balustrade, installing spiral stair and curved strings, secure stair to structure and line spandril area, and conducting finishing process.

This unit standard is intended for those who work as joiners and cabinet makers.

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 assembling and installing staircases.

3. Tools, equipment and accessories may include but are not limited to measuring tools, hammers, spirit level, squares, chisels, hand saws, trestles, power saws, power drills, screw drivers, power planer, nail gun, air compressors and hoses, clamps, set squares, template boards, router, wood lathe, power sander, fence and stairs clips.

4. Materials and fixatives may include but are not limited to timber, medium density fibreboard (mdf), plywood, steel, plastics, dowels, nailing, glue and wedging, glue blocks, screws, bolts and nuts, coach screws, hand rails, round threaded bars and wedges.

5. Assessment evidence may be collected from a real or simulated workplace in which joinery and cabinet making operations are carried out.

6. 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.

7. Regulations and legislation relevant to this unit standard include the following:

- Labour Act No 11, 2007 as amended;
- SABS 0400, NOSA, Local Authorities Act;
- 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: Select different types and designs of wooden staircases

Performance criteria

- 1.1 Different types and designs of wooden staircases are identified.
- 1.2 Different types and designs of wooden staircases are selected for given applications.

Element 2: Select and prepare materials and wooden staircases components

Performance criteria

- 2.1 Materials for packing and glue blocks are selected and prepared to design requirements.
- 2.2 Components are checked for appropriate locations in stair structure.
- 2.3 Methods for assembling and fixing are determined.

Element 3: Assemble strings and newels

Performance criteria

- 3.1 Specific position of stair is identified particularly for whole of assembly in place.
- 3.2 Floor level is checked and adjustments made where applicable to foot of newels and strings.
- 3.3 Strings and newels are assembled to design and fixed to specification.
- 3.4 Strings to be fixed to walls are temporarily supported and fixed in position to specification.

Element 4: Install treads and risers

Performance criteria

- 4.1 Assembled strings and newels are temporarily braced in vertical position.
- 4.2 Treads and risers above newels are fitted and fixed to assembly to provide width.
- 4.3 Intermediate treads and risers are fitted and wedged where applicable to fit tight housing according to specification.
- 4.4 Flight is checked for true and square.
- 4.5 Glue blocks are fitted to treads and risers to specified locations.

Element 5: Assemble and install landings

Performance criteria

- 5.1 Bearers and joints are fitted and fixed to level to specification for fixing.
- 5.2 Nosing and flooring are fitted and fixed to form landing to specified finish.
- 5.3 Fascia is fitted and fixed to landing to specification for finish.

Element 6: Install handrail and balustrade

Performance criteria

- 6.1 Balustrades and intermediate railing and handrails are fitted to form stair balustrade to specification.
- 6.2 Balusters are checked to ensure fitted plumb.
- 6.3 Newels are checked prior to final fixing to ensure plumb.
- 6.4 Hand railings are fitted and fixed.

Element 7: Install spiral stair and curved strings

Performance criteria

- 7.1 Location of stair and first step are accurately marked on floor.
- 7.2 Central post is erected into true position, fixed at floor and temporarily braced at top.
- 7.3 Initial string section is temporarily supported in place for assembly.
- 7.4 Treads and risers are fitted into position to specification.

- 7.5 Stair is progressively developed with the extending, supporting and fixing of curved string.
- 7.6 Stair is completed with head secured to floor and landing, balustrade installed and central post fixed to specifications.

Element 8: Secure stair to structure and line spandril area

Performance criteria

- 8.1 Designed securing of stair to building is carried out during and on completion of assembly.
- 8.2 Spandril is framed, lined and fixed out to specified finish.

Element 9: Conduct finishing process

Performance criteria

- 9.1 Finishing products are identified and selected.
- 9.2 Different finishing methods are applied.

Registration Data

Subfield:	Manufacturing
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