

**REPUBLIC OF KENYA**

**NATIONAL OCCUPATIONAL STANDARDS**

**FOR**

**CARPENTRY AND JOINERY**

**KNQF LEVEL 4**

**PROGRAMME ISCED CODE**: **0732 354 A**

©2025

All rights reserved. No part of this Curriculum may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods without the prior written permission of …….., except in the case of brief quotations embodied in critical reviews and certain other non-commercial uses permitted by copyright law. For permission requests, write to the ……….. at the address below:

**FOREWORD**

The provision of quality education and training is fundamental to the Government’s overall strategy for social economic development. Quality education and training will contribute to achievement Kenya’s development blue print and sustainable development goals.

Reforms in the education sector are necessary for the achievement of Kenya Vision 2030 and meeting the provisions of the Constitution of Kenya 2010. The education sector had to be aligned to the Constitution and this resulted to the formulation of the Policy Framework for Reforming Education and Training (Sessional Paper No. 4 of 2016). A key feature of this policy is the radical change in the design and delivery of the TVET training. The policy document requires that training in TVET shall be competency based, curriculum development shall be industry led, certification shall be based on demonstration of competence and mode of delivery shall allow for multiple entry and exit in TVET programs.

These reforms demand that Industry takes a leading role in curriculum development to ensure the curriculum addresses its competence needs. It is against this background that this Occupational Standard has been developed for the purpose of informing development of a competency-based Tile Fixer level 3 Curriculum. This Occupational Standard will also form the basis for assessment of an individual for competency certification.

It is my conviction that this Occupational Standard will play a great role towards development of a competent human resource for the Construction Sector’s growth and sustainable development.

**CABINET SECRETARY**

**PREFACE**

Kenya Vision 2030 aims to transform the country into a newly industrializing, “middle income country providing a high-quality life to all its citizens by the year 2030”. Kenya intends to create a globally competitive and adaptive human resource base to meet the requirements of a rapidly industrializing economy through life-long education and training. TVET has a responsibility of facilitating the process of inculcating knowledge, skills and attitudes necessary for catapulting the nation to a globally competitive country, hence the paradigm shift to embrace Competency-Based Education and Training (CBET).

The Technical and Vocational Education and Training Act, CAP 210A and the Sessional Paper No. 4 of 2016 on Reforming Education and Training in Kenya, emphasized the need to reform curriculum development, assessment and certification. This called for a shift to CBET to address the mismatch between skills acquired through training and skills needed by industry as well as increase the global competitiveness of Kenyan labour force.

The industry in conjunction with national polytechnics and other national agencies have developed this Tile Fixer Level 3 Occupational Standard. The Standard is designed and organized with clear performance criteria for each element of a unit of competency. It also outlines the required knowledge and skills for the performance of prescribed tasks as well as evidence guide for assessment purposes.

**PRINCIPAL SECRETARY**

**TABLE OF CONTENTS**

[FOREWORD ii](#_Toc195684364)

[PREFACE iii](#_Toc195684365)

[ACKNOWLEDGEMENT iv](#_Toc195684366)

[ABBREVIATIONS AND ACRONYMS v](#_Toc195684367)

[KEY TO ISCED UNIT CODE vi](#_Toc195684368)

[OVERVIEW viii](#_Toc195684369)

[BASIC UNITS OF COMPETENCY 1](#_Toc195684370)

[APPLY WORKPLACE ESSENTIAL SKILLS 2](#_Toc195684371)

[CORE UNITS OF COMPETENCY 10](#_Toc195684372)

[CONSTRUCT TEMPORARY WORKS 11](#_Toc195684373)

[FIX DOOR AND WINDOW FRAMES 15](#_Toc195684374)

[CARRY OUT CABINETRY WORKS 19](#_Toc195684375)

[CARRY OUT ROUGH CARPENTRY 6](#_Toc195684376)

[CONSTRUCT DOORS AND WINDOWS 10](#_Toc195684377)

[FABRICATE TIMBER FURNITURE ITEMS 15](#_Toc195684378)

[CONSTRUCT TIMBER FLOORS AND FRAMED STRUCTURES 19](#_Toc195684379)

[CONSTRUCT CABINETS 23](#_Toc195684380)

# ABBREVIATIONS AND ACRONYMS

CBET Competency Based Education and Training

ISCED International Standard Classification of Education

ISO International Organization for Standardization

PPE Personal Protective Equipment

TVET Technical and Vocational Education and Training

**KEY TO ISCED UNIT CODE**



# OVERVIEW

Carpentry and Joinery Level 4 qualification consist of competencies that a person must achieve to enable him/her perform carpentry works. It involves constructing temporary works, fixing door and window frames, installing cabinetry works, carrying out rough carpentry, constructing doors & windows, fabricating timber furniture items, constructing timber floor and framed structures and cabinets.

Carpentry and Joinery Level 4 qualification consists of the following basic and core units of competency.

**BASIC UNIT OF COMPETENCY**

|  |  |
| --- | --- |
| **ISCED Unit Code** | **Unit of Competency title** |
| 0732 351 04A | APPLY WORKPLACE ESSENTIAL SKILLS |

**CORE UNIT OF COMPETENCY**

|  |  |
| --- | --- |
| **ISCED Unit Code** | **Unit of Competency Title** |
| 0732 251 01A | CONSTRUCT TEMPORARY WORKS |
| 0732 251 02A | FIX DOOR & WINDOW FRAMES |
| 0732 251 03A | CARRY OUT CABINETRY WORKS |
| 0732 351 05A | CARRY OUT ROUGH CARPENTRY |
| 0732 351 06A | CONSTRUCT DOORS AND WINDOWS |
| 0732 351 07A | FABRICATE TIMBER FURNITURE ITEMS |
| 0732 351 08A | CONSTRUCT TIMBER FLOORS AND FRAMED STRUCTURES |
| 0732 351 09A | CONSTRUCT CABINETS |

**BASIC UNITS OF COMPETENCY**

## APPLY WORKPLACE ESSENTIAL SKILLS

**UNIT CODE:** 0732 351 04A

**UNIT DESCRIPTION**

This unit covers the competencies required to apply workplace essential skills. It involves applying communication skills, promoting work ethical practices, and values, and applying entrepreneurial skills.

**ELEMENTS AND PERFORMANCE CRITERIA**

| **ELEMENT**  These describe the key outcomes that make up workplace function | **PERFORMANCE CRITERIA**  These assessable statements specify the required level of performance for each of the elements.  ***Bold and italicized terms*** ***are elaborated in the Range*** |
| --- | --- |
| 1. Apply Communication Skills | * 1. Specific communication methods are identified based on workplace requirements.   2. Identified ***communication methods*** are applied in accordance with workplace requirements.   3. Specific written communication strategies are identified based on workplace requirements.   4. Identified ***written communication methods*** are applied based on the workplace policy.   5. Non-verbal ***communication cues*** are identified in all areas as per workplace requirements.   6. Identified ***non-verbal communication cues are*** applied in all areas of the workplace requirements.   7. Pathways of ***oral communication*** are established as per workplace policy.   8. ***Group discussion techniques*** are applied based on workplace needs. |
| 1. Promote work ethical practices and values | 1. Personal management is demonstrated through self-awareness, self-esteem, emotional intelligence, stress management and assertiveness based on scope of work. 2. Policies and guidelines are observed as per the workplace requirements 3. Self-worth and professionalism is exercised in line with ***personal goals*** and organizational policies 4. Code of conduct is observed as per the workplace requirements 5. Teamwork is applied as per work place requirements 6. **Conflicts** are resolved between ***team*** members in line with organization policy. 7. ***Creative, innovative*** and practical solutions are developed based on the problem 8. ***Customer*** concerns and complaints are analyzed and resolved in line with the set organizational culture. |
| 1. Apply Entrepreneurial skills | 1. Personal finances are managed as per financial procedures and standards 2. Savings are managed as per financial procedures and standards 3. ***Sources of personal and business*** funds are identified as per financial procedures and standards 4. Investments are undertaken as per financial procedures and standards 5. ***Entrepreneurial roles and characteristics*** identified as per principles of Entrepreneurship 6. Salaried employment and self-employment are distinguished as per principles of entrepreneurship 7. ***Requirements for entry into self-employment*** are identified according to business procedures and standards 8. ***Regulatory requirements*** when starting a small business are identified as per business procedures and standards 9. Business planning is undertaken as per resource implications and regulatory framework |

**RANGE**

This section provides the work environment and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

| **Variable** | **Range** |
| --- | --- |
| 1. Written communication may include but not limited to: | * Memos * Letters * Notices * SMS |
| 1. Non-verbal strategies may include and not limited to: | * Posture * Gestures * Eye contact * Facial expressions * Dressing/Grooming |
| 1. Oral communication pathways may include and not limited to: | * Telephone calls * Face-to-face * Meetings * Interviews |
| 1. Group communication strategies may include but not limited to: | * Body language * Active listening * Concise language |
| 1. Conflicts include but are not limited to: | * Interpersonal Conflict. * Intrapersonal Conflict. * Intergroup Conflict. * Intragroup Conflict. |
| 1. Customer may include but not limited to: | * Loyal * Discount * Impulse * Need-based * Wandering |
| 1. Team may include but not limited to: | * Small workgroup * Staff in a section/department * Inter-agency Group * Virtual teams |
| 1. Creative and Innovation may include but are not limited to: | * New ideas * Original ideas * Different ideas * Methods/procedures * Processes * New tools |
| 1. Sources of personal finance mayinclude but are not limited to: | * Salary/Wages * Investments * Savings * Inheritance * Government Benefits |
| 1. Sources of business finance mayinclude but not limited to: | * Equity Financing * Debt Financing, * Personal Savings/Investment * Retained Earnings * Grants and Subsidies * Crowdfunding * Supplier credit: * Leasing and Asset Financing: |
| 1. Characteristics of Entrepreneurs may include but are not limited to: | * Creative * Innovative * Planner * Risk-taker * Networker * Confident * Flexible * Persistent * Patient * Independent * Future-oriented * Goal oriented |
| 1. Requirements for entry into self-employment may include but not limited to | * Technical skills * Management skills * Entrepreneurial skills * Resources * Infrastructure |
| 1. Legal requirements when starting a small business may include but not limited to: | * Business Registration * Business Name Registration * Business Permits and Licenses * Tax Registration * Compliance with Employment Laws |

**REQUIRED SKILLS AND KNOWLEDGE**

This section describes the skills and knowledge required for this unit of competency.

**Required Skills**

The individual needs to demonstrate the following skills:

* Active listening
* Interpretation
* Negotiation
* Writing
* Decision making
* Problem solving skills
* Team work
* Responsibility skills
* Critical thinking
* Organizational
* Negotiation
* Monitoring
* Creative/innovative thinking
* Adaptability
* Conflict management
* Emotional intelligence
* Leadership
* Critical thinking
* Networking
* Basic financial management skills
* Creativity
* Analytical
* Management
* Problem-solving
* Communication

**Required Knowledge**

The individual needs to demonstrate knowledge of:

* Effective verbal communication methods
* Simple effective questioning techniques
* Workplace etiquette
* Work planning
* Personal hygiene
* Accountability
* Workplace problems and how to deal with them
* Work values and ethics
* Company policies and procedures
* Company operations, procedures and standards
* Flexibility and adaptability
* Concept of time and leisure time
* Decision making
* Work planning
* Organizing work
* Gender and diversity mainstreaming
* Professional growth and development
* creativity
* Innovation
* problem-solving
* customer care
* mentoring and coaching.
* Emerging issues
* Decision making
* Competition
* Budgeting
* Investment
* Personal financial management
* Risk
* Time management
* Market and feasibility studies
* Relevant developments in other industries

**EVIDENCE GUIDE**

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills knowledge, and range.

|  |  |
| --- | --- |
| 1. Critical aspects of Competency | Assessment requires evidence that the candidate:   * 1. Effected written communication based on workplace requirements.   2. Exercised non-verbal communication as per workplace requirements.   3. Executed group discussion strategies as per workplace policy.   4. Promoted team work based on workplace requirements   5. Promoted work ethical practices and values as per work place requirements   6. Budgeted Personal finance as per financial procedures and standards   7. Developed culture of Saving as per personal goals   8. Identified sources of personal and business finance as per financial procedures and standards   9. Undertook business planning as per resource implications and regulatory framework |
| 1. Resource Implications | 1. Access to relevant workplace where assessment can take place 2. Materials, equipment and tools relevant to the proposed activity or tasks |
| 1. Methods of Assessment | 3.1 Written tests   * 1. Observation   2. Oral questioning   3. Portfolio of Evidence   4. Interview   5. Third party report |
| 1. Context of Assessment | Competency may be assessed   1. On the job 2. Off the job 3. During industrial attachment |
| 1. Guidance information for assessment | Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended. |

**CORE UNITS OF COMPETENCY**

## CONSTRUCT TEMPORARY WORKS

**UNIT CODE:** **0732 251 01A**

**UNIT DESCRIPTION**

This unit describes the competencies required to construct temporary works. It involves setting out and preparing for temporary works, installing trench timbering for excavation support, constructing and erecting formwork for concrete structures, installing and securing shuttering for concrete works, dismantling and removing temporary works.

**ELEMENTS AND PERFORMANCE CRITERIA**

| **ELEMENT** | **PERFORMANCE CRITERIA**  *(Bold and italicized terms are elaborated in the Range)* |
| --- | --- |
| 1. Set out and prepare for temporary works | * 1. ***Personal protective equipment*** is selected, fitted and used according to safety rules and regulations   2. Drawings for temporary structures are interpreted according to the structural drawings.   3. ***Materials***, tools and equipment are identified and prepared as per the job task.   4. Materials are measured and marked out as per the drawings.   5. Safety regulations and risk management is ensured to comply with the site procedures as per safety requirements   6. Performed housekeeping practices as per workplace procedures |
| 1. Install trench timbering for excavation support | * 1. ***Trench timbering materials, tools and equipment*** are selected and prepared as per the drawings and instructions.   2. Timber walling boards, poling boards, struts for trench support are installed as per the drawings.   3. The structure is secured and braced depending with the ***soil type*** to prevent collapse according to the drawing   4. Ensured safe access and stability of trench timbering as per the building codes   5. Timbering is inspected and maintained throughout the excavation works as per the instructions   6. Performed housekeeping practices as per workplace procedures |
| 1. Construct and erect formwork for concrete structures | * 1. Personal protective equipment is selected, fitted and used according to safety rules and regulations   2. Formwork dimensions are determined as per the structural elements to be supported   3. Formwork material is identified as per structure complexity, job drawings or supervisor instructions   4. ***Formwork type*** is erected according to the structural element to be cast as per the structural drawing   5. Oiling of timber formwork surface is carried as per job instructions   6. Formwork is fixed into position in accordance with the construction rules and regulations   7. Formwork is dismantled according to site procedures and critical structural safety requirements   8. Performed housekeeping practices after construction of formwork as per workplace procedures |
| 1. Install and secure shuttering for concrete works | * 1. Shuttering boards or panels are cut and assembled to required sizes as per the drawing and instruction   2. Shuttering are positioned and fitted for vertical and horizontal elements as per the working drawings and site instructions   3. Provided reinforcement access and ensured proper sealing to prevent leaks as per site instructions   4. Inspected and reinforced shuttering before pouring concrete as per engineer’s instructions and approval   5. Performed housekeeping practices after construction of shuttering as per workplace procedures |
| 1. Dismantle and remove temporary works | * 1. Assessed and confirmed concrete curing before formwork/shuttering removal as per instructions   2. Supports are removed carefully without damaging concrete as per instructions   3. Reusable materials are cleaned, repaired and stored for future use as per site instructions   4. Restored work site condition and disposed waste materials as per regulations and instructions.   5. Performed housekeeping practices as per workplace procedures |

**Range**

| **Variable** | **Range** |
| --- | --- |
| 1. Personal protective equipment may include but is not limited to: | * Helmets * Safety boots * Gloves * Overall * Reflectors |
| 1. Formwork material may include but is not limited to: | * Timber * Metal plates * Plastic |
| 1. Formwork type may include but is not limited to: | * Column formwork * Beam formwork * Floor formwork * Wall formwork * Permanent formwork |
| 1. Trench timbering materials, tools and equipment may include but is not limited to: | * Timber * Hammer * Metal plates * Pliers * Nails * Binding wires |
| 1. Soil type may include but is not limited to: | * firm soil * Loose soil * Waterlogged soil |

**REQUIRED KNOWLEDGe and SKILLS**

**knowledge**

* Measurement
* Formwork
* Shuttering
* Soil properties
* Wall construction
* Trench excavation
* Basic arithmetic
* Technical drawings

**Skills**

* Measurement skills
* Basic mathematic skills
* Reading skills
* Communication skills
* Construction tools handling skills

**EVIDENCE GUIDE**

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

|  |  |
| --- | --- |
| 1. Critical Aspects of Competency | Assessment requires evidence that the candidate:   * 1. Drawings are interpreted and materials, tools and equipment prepared.   2. Constructed and dismantled trench timbering   3. Constructed and dismantled building formwork   4. Erected and dismantled building Shuttering.   5. Observed occupational health and safety procedures to create a safe working environment |
| 1. Resource Implications | The following resources should be provided:   * 1. Access to relevant workplace or appropriately simulated environment where assessment can take place   2. Measuring equipment   3. Materials relevant to the proposed activity or tasks |
| 1. Methods of Assessment | Competency may be assessed through:   * 1. Practical assignment   2. Written   3. Oral interview   4. Demonstrations |
| 1. Context of Assessment | Competency may be assessed  4.1. On-the-job  4.2. Off-the –job  4.3. During Industrial attachment |
| 1. Guidance information for assessment | Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended. |

## FIX DOOR AND WINDOW FRAMES

**UNIT CODE :** **0732 251 02A**

**UNIT DESCRIPTION**

This unit describes the competence required to fix door and window frames. It involves setting out and preparing openings for frames, positioning and securing door and window frames, applying fixings and reinforcements and finishing and inspecting installed frames.

**ELEMENTS AND PERFORMANCE CRITERIA**

| **ELEMENTS**  These describe the key outcomes which make up the workplace function | **PERFORMANCE CRITERIA**  These are assessable statements which specify the required level of performance for each of the elements  *(Bold terms are elaborated in the Range)* |
| --- | --- |
| 1. Set Out and Prepare Openings for Frames | * 1. Drawings are interpreted for door and window frame installation as per the working drawings.   2. Dimensions of openings are verified as per the design requirements.   3. Materials, tools and equipment are identified as per the job requirement.   4. Openings are aligned ensuring plumbness, levelness and squareness as per the site instructions.   5. Surfaces are prepared and necessary treatments are applied as per the instructions. |
| 1. Position and Secure Door and Window Frames | * 1. ***Type of door and window frames*** are identified as per the design requirements.   2. Lifting techniques are applied as per the instructions to prevent damage.   3. ***Door and Window Frames*** are temporarily secured using wedges and clamps as per the job requirement.   4. Plumbness, Levelness and Alignment are checked as per site instructions.   5. Allowed for expansion gaps and applied packing techniques as per instruction. |
| 1. Apply Fixings and Reinforcements | * 1. Appropriate fixings and reinforcements are selected as per the job requirements.   2. Fixings are installed to secure frames as per the instructions.   3. Structural stability is reinforced as per the job requirements and instructions.   4. Fixings and reinforcements are inspected and tested as per the requirements. |
| 1. Finish and Inspect Installed Frames | * 1. Surace is prepared for finishing as per the job requirement.   2. Protective and decorative finishes are applied as per the job requirement.   3. Installed frames are inspected for quality and compliance as per the job requirement.   4. Adjustments and corrections are made where necessary as per the instructions.   5. Performed housekeeping practices as per workplace procedures |

**RANGE**

| **Variable** | **Range** |
| --- | --- |
| 1. Materials may include but are not limited to: | * + Hardwood   + Soft wood   + Manufactured boards   + Ironmongery |
| 1. Tools & equipment may include but are not limited to: | * + Planes   + Square   + Saws   + Chisel saws   + Claw hammer   + Mallet   + Tape measure   + Screw driver |
| 1. Door frame members may include: | * + Jambs   + Posts   + Heads   + Horn   + Transome   + Vent light |
| 1. Window frame members may include but are not limited to: | * + Head   + Sill (or Cill)   + Jambs   + Mullion   + Transom |

**REQUIRED KNOWLEDGE and SKILLS**

**Knowledge**

* Building code
* Codes of practice
* Basic arithmetic
* Measurement
* Types of door and window frames
* Methods of finishing processes

**Skills**

* Measurement
* Basic arithmetic
* Design
* Planning

**EVIDENCE GUIDE**

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

|  |  |
| --- | --- |
| 1. Critical Aspects of Competency | Assessment requires evidence that the candidate:   * 1. Interpreted drawings and dimensions for door and window frame installation   2. Fixed door and window frames accurately   3. Applied fixings and reinforcements to the frames   4. Performed finishing processes accordingly |
| 1. Resource Implications | The following resources should be provided:   1. Access to relevant workplace or appropriately simulated environment where assessment can take place 2. Materials relevant to the proposed activity or tasks |
| 1. Methods of Assessment | Competency may be assessed through:   * 1. Demonstration   2. Practical assignment/project   3. Interview/Oral Questioning   4. Written |
| 1. Context of Assessment | Competency may be assessed  4.1 On-the-job  4.2 Off-the –job  4.3 During Industrial attachment |
| 1. Guidance information for assessment | Holistic assessment with other units relevant to the carpentry and joinery sector workplace and job role is recommended. |

## CARRY OUT CABINETRY WORKS

**UNIT CODE:** **0732 251 03A**

UNIT DESCRIPTION

This unit specifies the competencies required to carry out cabinetry works. It involves setting out and preparing work area, assembling and preparing cabinet units, installing built in cabinets, kitchen cabinets, and wardrobes.

ELEMENTS AND PERFORMANCE CRITERIA

|  |  |
| --- | --- |
| **ELEMENT**  These describe the key outcomes which make up workplace function. | **PERFORMANCE CRITERIA**  These are **assessable** statements which specify the required level of performance for each of the elements.  ***Bold and italicized terms are elaborated in the Range*** |
| * 1. Set out and prepare work area | * 1. Drawings and measurements are interpreted for cabinetry installation as per the drawings.   2. Site conditions, wall, and floor levels are verified for cabinet fitting as per the job requirement.   3. ***Materials, tools and equipment*** are identified and prepared as per the job requirement.   4. Cleaned the workspace as per the job requirement |
| * 1. Assemble and Prepare Cabinet Units | 1. PPEs are donned as per the job requirements. 2. Cabinet componets are checked and sorted according to the design specifications. 3. Cabinet units are assembled using appropriate ***joinery techniques*** as per the job requirement. 4. Squareness, Levelness and Plumbness are checked to ensure sound assembly as per the job reuirement. 5. Holes are pre-drilled for hardware, handles and fittings as per the job requirement. 6. Built-in cabinetry background is prepared as per the working design. |
| * 1. Install Built-in Cabinets, Kitchen Cabinets and Wardrobes | 1. Built-in cabinetry tools and equipment are assembled as per job requirement. 2. Built-in cabinetry materials are selected as per working design. 3. Built-in cabinetry frame is constructed per the working design. 4. ***Built-in cabinetry elements*** are fixed together by the use of carpentry ***fasteners and adhesive*** as per the working design. 5. Built-in cabinetry shelves, doors and drawers are installed using ***carpentry hardware*** as per the working design. 6. Housekeeping practices are performed after installing built-in cabinetry works as per workplace procedures |

RANGE

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

|  |  |
| --- | --- |
| **Variables** | **Range** |
| * 1. Cabinetry work tools, and equipment may include but are not limited to; | * Measuring tape * Mortise gauge * Rip saw * Claw hammer * Working bench * Bench vice * Drill * Clamps * Tenon saw * Jigsaw * Router * Sanders |
| * 1. Joinery techniques may include but are not limited to: | * Nails * Screws * Dowels * Bolts and Nuts * Clamps * Wood glue * Rivets |
| * 1. Cabinetry works materials may include but are not limited to; | * Sawn timber * MDF * Plywood * Batten boards * Chip boards * Marine boards |
| * 1. Cabinetry elements may include but are not limited to; | * Bookcase * Buffet cabinet * Shelving * Drawers * Doors * Office cabinets |
| * 1. Kitchen cabinetry works elements may include but are not limited to; | * Beaded * Shaker * Flat panel * Wall * Base * Tall-standing. |
| * 1. Carpentry fasteners and adhesives may include but are not limited to; | * Iron nails * Screws * Panel pins * Plates * Conta * Silicon * Wood glue |
| * 1. Carpentry hardware may include but not limited to; | * Hinges * Catches * Locks * Bolts |

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit of competency.

Required Skills

The individual needs to demonstrate the following skills: s

* Communication skills
* Interpretation skills
* Problem-solving skills
* Critical thinking skills
* Joining and jointing skills
* Organizing skills
* Measuring skills
* Numeracy skills
* Cutting skills
* Interpersonal Relationship skills

REQUIRED KNOWLEDGE

The individual needs to demonstrate knowledge of:

* Interpretation of symbols
* Conversion of units
* Levelling
* Cabinetry materials and supplies
* Cabinetry tools and equipment
* Types of manufactured boards
* Materials and supplies
* Joining and jointing
* Mensuration
* Cabinetry types and systems
* Functionality tests
* Use of power tools

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

|  |  |
| --- | --- |
| 1. Critical Aspects of  Competency | Assessment requires evidence that the candidate:   1. Built-in cabinetry ***tools and equipment*** are assembled as per job requirement. 2. Built-in cabinetry ***materials*** are selected as per working design. 3. Built-in ***cabinetry elements*** are fixed together by the use of ***carpentry fasteners and adhesive*** as per the working design. 4. Built-in cabinetry shelves, doors and drawers are installed using ***carpentry hardware*** as per the working design. 5. Cabinetry elements are fixed together by the use of ***carpentry fasteners and adhesive*** as per the working design. 6. ***Cabinetry components*** are installed using ***carpentry hardware*** as per the working design. 7. Housekeeping practices are performed after installing built-in cabinetry works as per workplace procedures. |
| 2. Resource Implications | The following resources must be provided:  2.1 A functional workshop with carpentry and joinery tools, equipment, materials and supplies.  2.2 References and manuals including construction working drawings  2.3 Personal protective equipment |
| 3. Methods of  Assessment | Competency may be assessed through:  3.1 Practical Tests  3.2 Oral Questioning  3.3 Written Tests  3.4 Third party report  3.5 Portfolio |
| 4. Context of  Assessment | Assessment may be done:  4.1 On-the-job,  4.2 Off-the-job or  4.3 During Work placement. |
| 5. Guidance  information for assessment | Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended |

## CARRY OUT ROUGH CARPENTRY

**UNIT CODE: 0732 351 05A**

**UNIT DESCRIPTION**

This unit describes the competences required to carry out rough carpentry. It involves setting out rough carpentry, fixing rough carpentry members and dismantling rough carpentry members.

**ELEMENTS AND PERFORMANCE CRITERIA**

| **ELEMENT** | **PERFORMANCE CRITERIA**  *(Bold and italicized terms are elaborated in the Range)* |
| --- | --- |
| * + - 1. Set out rough carpentry | * 1. Personal protective equipment (PPEs) is donned as per job requirements   2. ***Rough carpentry*** setting out tools are handled as per the manufacturer's instructions   3. Rough carpentry site is cleared as per the job requirements   4. ***Rough carpentry member*** positions are marked out as per the job requirements   5. Housekeeping practices are carried out as per workplace procedures |
| * + - 1. Fix rough carpentry members | * 1. Personal protective equipment (PPE) is donned as per job requirements   2. Rough carpentry erecting ***tools and equipment*** are handled as per the manufacturer's instructions   3. ***Rough carpentry*** ***materials*** are assembled as per the job requirements   4. Rough carpentry members are placed in position as per job requirement   5. Rough carpentry members are aligned as per job requirement   6. Rough carpentry members are fixed in position as per job requirement   7. ***Housekeeping*** practices are carried out as per workplace procedures |
| * + - 1. Dismantle rough carpentry members | * 1. Personal protective equipment (PPE) is donned as per job requirements   2. Rough carpentry dismantling tools and equipment are handled as per the manufacturer's instructions   3. Rough carpentry support members are removed as per the job requirements   4. Rough carpentry ***fasteners*** are unfastened as per the job requirements   5. Rough carpentry members are dismantled as per the job requirements   6. Housekeeping practices are carried out as per workplace procedures   7. Timber waste is recycled into handicrafts and consumer goods |

**RANGE**

| **Variable** | **Range** |
| --- | --- |
| 1. Rough carpentry may include but not limited to: | * Hoarding * Shoring * Scaffolding |
| 1. Rough carpentry members may include but not limited to: | * Props * Studs * Struts * Runners * Ties |
| 1. Rough carpentry erecting tools may include but is not limited to: | * Marking tools * Measuring and testing tools * Driving tools * Boring tools * Cutting tools * Setting out tools |
| 1. Rough carpentry Materials may include but is not limited to: | * Plywood * Timber poles * Iron sheets * Fibre boards |
| 1. Housekeeping may include but is not limited to: | * Cleaning * Clearing * Keep workplace tidy |
| 1. Fasteners may include but not limited to: | * Bolt and nuts * Screws * Nails * Swivels |

**REQUIRED KNOWLEDGE**

* Types of timber
* Simple arithmetic calculations
* Carpentry and joinery tool
* Formwork construction
* Construction dimensions
* Architectural drawing

**SKILLS**

* Interpret working drawing
* Communication skills
* Designing
* Computer literacy
* Planning
* Enterpreneurship skills

**EVIDENCE GUIDE**

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

|  |  |
| --- | --- |
| 1. Critical Aspects of Competency | Assessment requires evidence that the candidate:   1. Marked out rough carpentry member positions as per the job requirements 2. Placed rough carpentry members in position as per the job requirements 3. Aligned rough carpentry members as per the job requirements 4. Fixed rough carpentry members in position as per the job requirements 5. Removed rough carpentry support members as per the job requirements 6. Unfastened rough carpentry fasteners as per the job requirements 7. Dismantled rough carpentry members as per the job requirements |
| 1. Resource Implications | The following resources should be provided:   * 1. appropriately simulated environment where assessment can take place   2. Access to relevant work environment   3. Resources relevant to the proposed activity or tasks |
| 1. Methods of Assessment | Competency in this unit may be assessed through:   * 1. Practical   2. Projects   3. Written tests   4. Portfolio of evidence   5. Third party reports |
| 1. Context of Assessment | The competency may be assessed in a workplace or a simulated workplace |
| 1. Guidance information for assessment | Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended. |

## CONSTRUCT DOORS AND WINDOWS

**UNIT CODE : 0732 351 06A**

**UNIT DESCRIPTION**

This unit describes the competence required to construct doors and windows. It involves, marking and cutting out door & window component profile, fitting door & window joints, performing door & window finishes and erecting doors and windows.

**ELEMENTS AND PERFORMANCE CRITERIA**

| **ELEMENTS**  These describe the key outcomes which make up workplace function | **PERFORMANCE CRITERIA**  These are assessable statements which specify the required level of performance for each of the elements  *(Bold terms are elaborated in the Range)* |
| --- | --- |
| 1. Mark and Cut out door & window component profile | * 1. Personal protective equipment (PPE) is donned as per job requirements   2. ***Types of doors and windows*** are identified as per the working drawing   3. Doors & Windows marking and cutting-out tools are handled as per the manufacturer’s specifications   4. ***Door & Window*** ***materials*** are assembled as per the working drawings   5. Doors & Window frames component profile is marked and cut out according to the working drawing   6. Doors & Windows component profile is marked and cut out as per the working drawing   7. Housekeeping practices are performed as per workplace procedures |
| 1. Fit Door and Window joints | * 1. Personal protective equipment (PPEs) is donned as per job requirements   2. Doors & Window fixing tools are handled as per the manufacturer’s specifications   3. Doors & Window frames joints are fixed as per the working drawing.   4. Doors & Window joints are assembled as per the working drawing   5. Housekeeping practices are performed after fixing timber joints as per workplace procedures |
| 1. Perform door & window finishes | * 1. Personal protective equipment (PPEs) is donned as per job requirements   2. Doors & Windows finishing tools and equipment are handled as per manufacturer’s specifications   3. Doors & Windows finishing materials are assembled as per job requirements   4. ***Surface preparation*** is carried out as per job requirements   5. ***Surface coating*** is carried out as per job requirements   6. Housekeeping practices are performed after finishing process as per workplace procedures |
| 1. Erect doors and Windows | * 1. Personal protective equipment (PPEs) is donned as per job requirements   2. Doors & Windows erecting tools and equipment are handled as per manufacturer’s specifications   3. Doors & Windows erecting ***materials*** are assembled as per job requirements   4. ***Background preparation*** is carried out as per the job requirements   5. Doors and Windows are erected as per the working drawings   6. Door and Window frame ***quality checks*** are carried out as per the job requirements.   7. ***Door architrave*** is fixed as per the working drawings   8. Housekeeping practices are performed after finishing process as per workplace procedures   9. Timber waste is recycled into handicrafts and consumer goods |

**RANGE**

| **Variable** | **Range** |
| --- | --- |
| 1. Door & Window materials may include but is not limited to: | * + Hard wood   + Soft wood   + Manufactured boards   + Ironmongery |
| 1. Door & Window joints may include but not limited to: | * Mortise and tenon * Dove tail * Bridle joint * Housing joint   + Tongue and groove |
| 1. Types of Architraves | * Straight * Curved |
| 1. Quality checks | * Levelness * Plumbness * Squareness |
| 1. Surface preparation: | * + Scrapping   + Planing   + Filling   + Sanding |
| 1. Background preparation | * + Chasing   + Pilot hole drilling   + Plugging |
| 1. Surface coating | * + Varnishing   + Painting   + Laminating   + Staining   + Waxing |

**REQUIRED KNOWLEDGE and SKILLS**

**Knowledge**

* Construction dimensions
* Architectural drawing
* Local authority by-laws
* Building code
* Structural elements
* Codes of practice
* Basic arithmetic
* Measurement
* Building drawing
* Types of doors
* Methods of finishing processes
* Marking and cutting tools and equipments

**Skills**

* Measurement
* Basic arithmetic
* Design
* Computer literacy
* Planing

**EVIDENCE GUIDE**

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

|  |  |
| --- | --- |
| 1. Critical Aspects of Competency | Assessment requires evidence that the candidate:   * 1. Handled the tools and equipment as per the manufacturer’s specifications   2. Marked out product profiles as per the working drawings   3. Cut out product profile as per the working drawings   4. Marked out joints as per the working drawings   5. Cut out joints as per the working drawings   6. Fixed the joints as per the working drawings   7. Mounted the door and window as per the working drawings   8. Fixed the architrave as per the working drawings.   9. Prepared the surface as per the job requirements   10. Coated the surface as per the job requirements |
| 1. Resource Implications | The following resources should be provided:   * 1. appropriately simulated environment where assessment can take place   2. Access to relevant work environment   3. Resources relevant to the proposed activity or tasks |
| 1. Methods of Assessment | Competency in this unit may be assessed through:   * 1. Practical   2. Projects   3. Written tests   4. Portfolio of evidence   5. Third party reports |
| 1. Context of Assessment | The competency may be assessed in a workplace or a simulated workplace |
| 1. Guidance information for assessment | Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended. |

## FABRICATE TIMBER FURNITURE ITEMS

**UNIT CODE: 0732 351 07A**

**UNIT DESCRIPTION**

This unit describes the competences required to Fabricate timber furniture items. It involves interpreting working drawings, making up furniture components, assembling furniture components and performing furniture finishes.

**ELEMENTS AND PERFORMANCE CRITERIA**

| **ELEMENT** | **PERFORMANCE CRITERIA**  *(Bold and italicized terms are elaborated in the Range)* |
| --- | --- |
| 1. Interpret Working Drawings | * 1. The purpose of working drawings is explained, including their role in furniture fabrication as per the requirements.   2. Types of drawings are identified and described as per job requirement.   3. The concept of scale is explained and used to calculate actual dimensions using architectural scales.   4. Key components of working drawings are identified as per the job requirement.   5. Drawings are accurately read and interpreted as per the requirements.   6. Information from drawings is applied correctly in work processes as per job requirements. |
| 1. Make-up furniture components | * 1. Personal protective equipment (PPE) is donned as per job requirements   2. Furniture component profile ***cutting-out tools*** are handled as per manufacturers specifications   3. ***Furniture component materials*** are assembled as per working drawings   4. ***Furniture component*** profile is marked out as per the working drawings   5. Furniture component profile is cut out as per the working drawing   6. Furniture joints are marked out as per the working drawing   7. Furniture joints are cut out as per the working drawing   8. Furniture joints are fitted as per the working drawings   9. Housekeeping practices are carried out as per workplace procedures. |
| 1. Assemble furniture components | * 1. Personal protective equipment (PPE) is donned as per job requirements   2. Furniture assembly tools and equipment are handled as per the manufacturers' specifications   3. ***Furniture*** ***joints*** are fixed as per the working drawings.   4. Furniture strength and stability is examined as per job requirements.   5. Housekeeping practices are carried out as per |
| 1. Perform furniture finishing | * 1. Personal protective equipment (PPE) is donned as per job requirements   2. Furniture finishing tools and equipment are handled as per the manufacturers' specifications   3. Furniture finishing materials are assembled as per job requirements   4. Furniture surface gaps are filled as per the job requirements   5. Furniture ***surface preparation*** is carried out as per the job requirements   6. Furniture ***surface coating*** is carried out as per the job requirements   7. ***Housekeeping*** practices are carried out as per workplace procedures   8. Timber waste is recycled into handicrafts and consumer goods |

**RANGE**

| **Variable** | **Range** |
| --- | --- |
| 1. Profile cutting-out tools may include but is not limited to: | * Marking tools * Measuring and testing tools * Driving tools * Boring tools * Cutting tools * Planning and shaping tools * Setting out tools |
| 1. Furniture component materials may include but is not limited to: | * Plywood * Fibreboard * Block board * soft board |
| 1. Furniture components may include but not limited to: | * Table legs * Table tops * Drawers * Furniture handles |
| 1. Furniture joints may include but not limited to: | * Mortise and tenon joint * Dove tail joint * Bridle joint * Housing joint * Scarf joint |
| 1. Surface preparation | * + scrapping   + Planing   + Filling * Sanding |
| 1. Surface coating | * + Varnishing   + Painting   + Laminating   + Staining |
| 1. Housekeeping may include but is not limited to: | * Cleaning * Clearing   + Keep workplace tidy |

**REQUIRED KNOWLEDGE**

* Types of timber
* Simple arithmetic calculations
* Carpentry and joinery tools
* Types of timber
* Furniture construction
* Construction dimensions
* Architectural drawing
* Examples of furniture items

**SKILLS**

* Interpret working drawing
* Communication skills
* Design
* Computer literacy
* Planning
* Enterpreneurship skills

**EVIDENCE GUIDE**

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

|  |  |
| --- | --- |
| 1. Critical Aspects of Competency | Assessment requires evidence that the candidate:   1. Handled tools and equipment as per the manufacturer’s specifications 2. Cut out component profile as per the working drawings 3. Marked out furniture joints as per the working drawings 4. Cut out furniture joints as per the working drawings 5. Fitted furniture joints as per the working drawings 6. Fixed furniture joints as per the working drawings 7. Prepared furniture surface as per the job requirements 8. Coated the furniture surface as per the job requirements |
| 1. Resource Implications | The following resources should be provided:   * 1. appropriately simulated environment where assessment can take place   2. Access to relevant work environment   3. Resources relevant to the proposed activity or tasks |
| 1. Methods of Assessment | Competency in this unit may be assessed through:   * 1. Practical   2. Projects   3. Written tests   4. Portfolio of evidence   5. Third party reports |
| 1. Context of Assessment | The competency may be assessed in a workplace or a simulated workplace |
| 1. Guidance information for assessment | Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended. |

# CONSTRUCT TIMBER FLOORS AND FRAMED STRUCTURES

**UNIT CODE: 0732 351 08A**

**UNIT DESCRIPTION**

This unit describes the competences required to construct timber floors and timber framed buildings. It entails interpreting working drawing, constructing timber floors, finishing on timber floors, constructing timber framed structures and finishing on timber framed structures.

**ELEMENTS AND PERFORMANCE CRITERIA**

| **ELEMENT** | **PERFORMANCE CRITERIA**  *(Bold and italicized terms are elaborated in the Range)* |
| --- | --- |
| 1. Interpret working drawings | 1. Working drawings are interpreted based on building code 2. Measurements are extracted and converted as required by the working drawing 3. Symbols are identified and interpreted based on International technical drawing (ISO 128) |
| 1. Construct timber floors | * 1. Personal protective equipment (PPE) is donned as per job requirements   2. ***Materials***, tools and equipment selected and prepared as per the work place procedure   3. Setting out floor components is done according to the working drawings   4. Timber floor components are cut as per working drawings   5. Assembly and fixing of floor components is done according to job specifications   6. Timber floor level is checked as per job requirements   7. ***Timber floor covering*** is laid as per working drawings   8. Housekeeping practices are carried out as per workplace procedures |
| 1. Finishing on timber floors | 1. Personal protective equipment (PPE) is donned as per job requirements 2. Timber floor finishing materials, tools, and equipment are assembled as per the job requirements. 3. ***Prepared timber floor surfaces*** as per the job requirements 4. Applied suitable ***finishes*** as per the guidelines 5. Mounted timber floor skirting as per the working drawings 6. Housekeeping practices are carried out as per workplace procedures |
| 1. Construct timber framed structures | 1. Personal protective equipment (PPE) is donned as per the job requirements 2. Identified the ***methods of timber frame construction*** as per the working drawings 3. Prepared the materials, tools and equipment as per the job requirements 4. Accurately set out and mark dimensions for frames based on the working drawings 5. Cut and assembled frame components as per the working drawings 6. Erected and fixed the frames securely, ensuring a plumb, level and square construction as per the building regulations. 7. Disposed waste as per the environment regulations |
| 5. Finishing on timber framed structures | 1. Personal protective equipment (PPE) is donned as per the job requirements 2. Applied appropriate surface treatments to protect against environmental factors 3. Fitted the ***cladding*** as per the building regulations 4. Installed ***wall second fixtures*** as per job requirements 5. Perform workplace housekeeping procedures as per work place procedures 6. Timber waste is recycled into handicrafts and consumer goods |

**Range**

|  |  |
| --- | --- |
| **Variable** | **Range** |
| 1. Methods of timber frame construction may include but is not limited to: | * Platform * Ballon |
| 1. Timber frame cladding materials may include but is not limited to: | * Timber * Manufactured boards * G.I Sheets |
| 1. Wall second fixtures may include but is not limited to: | * Picture rail * Dado rail * Pelmet box |
| 1. Wood treatments may include but is not limited to: | * Oil borne * Water borne * Metallic salts * Chemical treatments * Borate treatments |
| 1. Timber flooring Materialsmay include but is not limited to: | Structural and finishing member materials   * Joists * Sill plates * Bearer * Battens |
| 1. Timber flooring covering materials may include but not limited to: | * Timber boards * Parquet boards |
| 1. Surface coating include: | * Varnishing * Painting * Staining * Waxing * Laminating |
| 1. Setting out tools and equipment may include but is not limited to: | * Marking tools * Measuring and testing tools * Driving tools * Cutting tools * Planning and shaping tools * Setting out tools |

**REQUIRED KNOWLEDGE**

* Basic calculations
* Dimensioning
* Wood preservatives
* Selection of materials
* Various types of timber
* Joining materials
* Timber decking
* Selection of materials

**SKILLS**

* Interpretation of working drawing
* Handling of tools and equipments
* Measuring, cutting, marking skills
* Levelling

**EVIDENCE GUIDE**

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

|  |  |
| --- | --- |
| 1. Critical Aspects of Competency | Assessment requires evidence that the candidate:   1. Extracted the measurements as per the working drawings 2. Prepared timber floor materials as per working drawing 3. Selected tools and equipment appropriately 4. Set out timber floors as per the working drawing 5. Cut out floor members as per working drawing 6. Assembled timber floor members as per the working drawing 7. Laid timber floor covering as per the working drawings 8. Mounted a skirting as per the working drawings 9. Performed finishing on timber floors as per job requirement 10. Constructed timber framed structures as per the working drawings 11. Performed finishing on timber frame structures as per job requirements 12. Installed second wall fixtures on timber frame structures as per the job requirements. 13. Performed housekeeping according workplace procedures |
| 1. Resource Implications | The following resources should be provided:  2.1 Access to relevant workplace or appropriately simulated environment where assessment can take place  2.2 Materials relevant to the proposed activity or tasks |
| 1. Methods of Assessment | Competency may be assessed through:   * 1. Written Test   2. Demonstration   3. Practical assignment   4. Interview/Oral Questioning |
| 1. Context of Assessment | Competency may be assessed   1. On the job 2. Off the job 3. During industrial attachment |
| 1. Guidance information for assessment | Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended. |

## CONSTRUCT CABINETS

**UNIT CODE: 0732 351 09A**

**UNIT DESCRIPTION**

This unit describes the competences required to carry out cabinetry works. It involves interpreting working drawings, cutting out cabinetry members, preparing cabinetry background and performing cabinetry finishes.

**ELEMENTS AND PERFORMANCE CRITERIA**



| **ELEMENT** | **PERFORMANCE CRITERIA**  *(Bold and italicized terms are elaborated in the Range)* |
| --- | --- |
| 1. Interpret Working Drawings | * 1. The purpose of working drawings is explained, including their role in cabinet fabrication as per the requirements.   2. Types of drawings are identified and described as per job requirement.   3. The concept of scale is explained and used to calculate actual dimensions using architectural scales.   4. Key components of working drawings are identified as per the job requirement.   5. Drawings are accurately read and interpreted as per the requirements.   6. Information from drawings is applied correctly in work processes as per job requirements. |
| 1. Cut out cabinetry members | * 1. Personal protective equipment (PPE) is donned as per job requirements   2. ***Cabinetry*** ***construction materials*** are assembled as per working drawings   3. Cabinetry ***tools and equipment*** are handled as per the manufacturer's specification   4. ***Cabinetry members*** are marked out as per the working drawings   5. Cabinetry members are cut out as per the working drawings   6. Housekeeping practices are carried out as per workplace procedures. |
| 1. Prepare cabinetry background | * 1. Personal protective equipment (PPE) is donned as per job requirements   2. Cabinetry background preparation tools and equipment are assembled as per the job requirements   3. Cabinetry background preparation materials are assembled as per the job requirements   4. Cabinetry background is set out as per the job requirements   5. Cabinetry background ***templating*** is traced as per the job requirements   6. Housekeeping practices are carried out as per workplace procedures. |
| 1. Perform cabinetry finishes | 1. Personal protective equipment (PPEs) is donned as per job requirements 2. Cabinetry finishing tools and equipment are handled as per the manufacturer’s specifications 3. Cabinetry finishing materials are assembled as per the job requirements 4. ***Cabinetry second fixtures*** are erected as per the job requirements 5. Cabinetry ***surface preparation*** is performed as per the job requirement 6. Cabinetry ***surface coating*** is performed as per the job requirement 7. Housekeeping practices are carried out as per workplace procedures 8. Timber waste is recycled into handicrafts and consumer goods |

**Range**

|  |  |
| --- | --- |
| **Variable** | **Range** |
| 1. Cabinetry construction materials may include but is not limited to: | * Plywood * Fibre boards * Block boards * Soft boards |
| 1. Tools and equipment may include but is not limited to: | * Marking tools * Measuring and testing tools * Driving tools * Boring tools * Cutting tools * Planning and shaping tools * Setting out tools |
| 1. Cabinetry members may include but not limited to: | * Drawers * Shelves * Cabinet doors |
| 1. Templating may include but not limited to: | * Pilot hole drilling * Plugging * Tracing |
| 1. Cabinetry second fixtures include but are not limited to | * Cornice * Fixing Cabinets * Skirting |
| 1. Surface preparation | * + Scrapping   + Planing   + Filling * Sanding |
| 1. Surface coating | * + Varnishing   + Painting   + Laminating   + Staining   + Epoxy application |

**REQUIRED KNOWLEDGE**

* Basic calculations
* Selection of materials
* Various types of timber
* Joining materials

**SKILLS**

* Interpretation of working drawing
* Handling of tools and equipments
* Measuring, cutting, marking skills

**EVIDENCE GUIDE**

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

|  |  |
| --- | --- |
| 1. Critical Aspects of Competency | Assessment requires evidence that the candidate:   1. Handled cabinetry tools and equipment as per the manufacturer’s specifications 2. Marked out cabinetry members as per the working drawings 3. Cut out cabinetry members as per the working drawings 4. Prepared cabinetry background as per the job requirements 5. Fixed cabinetry members as per the working drawings 6. Erected cabinetry second fixtures as per the job requirements 7. Performed cabinetry surface preparation as per the job requirements 8. Performed cabinetry surface coating as per the job requirements |
| 1. Resource Implications | The following resources should be provided:   * 1. appropriately simulated environment where assessment can take place   2. Access to relevant work environment   3. Resources relevant to the proposed activity or tasks |
| 1. Methods of Assessment | Competency in this unit may be assessed through:   * 1. Practical   2. Projects   3. Written tests   4. Portfolio of evidence   5. Third party reports |
| 1. Context of Assessment | The competency may be assessed in a workplace or a simulated workplace |
| 1. Guidance information for assessment | Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended. |