



**THE REPUBLIC OF KENYA**

**NATIONAL OCCUPATIONAL STANDARDS  
FOR  
BUILDING TECHNICIAN**

**KNQF LEVEL 6  
ISCED PROGRAM CODE: 0732 554B**



**TVET CDACC  
P.O BOX 15745-00100  
NAIROBI**

## INSTALL BUILDING DOORS AND WINDOWS

**UNIT CODE:** CON/OS/BUT/CR/10/6/A

### UNIT DESCRIPTION

This Unit describes the competences required to install building windows and doors. It involves preparing window and door schedule, fabricating/ordering building doors and windows, fixing building doors and windows and applying door and window finishes.

### ELEMENTS AND PERFORMANCE CRITERIA

| ELEMENT                              | PERFORMANCE CRITERIA<br>( <i>Bold and italicized terms are elaborated in the Range</i> )  |
|--------------------------------------|---|
| 1. Prepare window and door schedule  | 1.1 Doors and window dimensions and specifications are identified based on the architectural drawings<br>1.2 Door and window sketches are prepared based on dimensions and specifications<br>1.3 Window and door schedule is prepared with quantities and quoted prices |
| 2. Fabricate/order doors and windows | 2.1 Door and window specifications are obtained from door and window schedule and architectural plan<br>2.2 Doors and windows are fabricated and ordered as per set procedures<br>2.3 Doors and windows are delivered to the site as per standard operating procedures  |
| 3. Fix doors and windows             | 3.1 Door and window openings are <b><i>prepared</i></b> for fixing as per SOPs<br>3.2 <b><i>Connecting iron mongery</i></b> is fixed on the door and window openings as per SOPs<br>3.3 Doors and windows are fixed as per SOPs   |
| 4. Apply door and window finishes    | 4.1 Windows and doors (where applicable) glazing is fixed as per SOPs<br>4.2 Windows and doors plastering are applied as per SOPs<br>4.3 <b><i>Iron mongery (other)</i></b> are fixed as per SOPs<br>4.4 Windows and doors are painted as per SOPs                      |

## **RANGE**

| <b>Variable</b>   | <b>Range</b>   |
|---|--|
| 1. Prepared may include but is not limited to:                | <ul style="list-style-type: none"><li>• Hacking</li><li>• Drilling</li></ul>               |
| 2. Connecting iron mongery may include but is not limited to: | <ul style="list-style-type: none"><li>• Hinges</li></ul>                                   |
| 3. Iron mongery (other) may include but is not limited to:    | <ul style="list-style-type: none"><li>• Stoppers</li><li>• Locks</li><li>• Stays</li></ul> |

## **REQUIRED KNOWLEDGE**

- Material scheduling
- Types of doors and windows
- Door and window fabrication methods
- Plan interpretation
- Dimensioning
- Sketching
- Iron mongery
- Door and window finishes

## **SKILLS**

- Sketching
- Planning
- Interpretation
- Critical thinking
- Analytical
- Fixing

## **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      | <p>Assessment requires evidence that the candidate:</p> <ul style="list-style-type: none"> <li>1.1 Prepared simple window and door schedule</li> <li>1.2 Transferred window and door specification to fabrication workshop</li> <li>1.3 Fixed simple doors and windows</li> <li>1.4 Applied door and window finishes</li> </ul> |
| 2. Resource Implications               | <p>The following resources should be provided:</p> <ul style="list-style-type: none"> <li>2.1 Materials and equipment specifications</li> <li>2.2 External workshops/in site workshops</li> <li>2.3 Fabrication tools and equipment</li> <li>2.4 Trained Quality control staff</li> </ul>                                       |
| 3. Methods of Assessment               | <p>Competency may be assessed through:</p> <ul style="list-style-type: none"> <li>3.1 Interview</li> <li>3.2 Case Study/Situation</li> <li>3.3 oral questioning</li> <li>3.4 Practical Test</li> </ul>  |
| 4. Context of Assessment               | <p>Competency may be assessed on the job, off the job or a combination of these. Off the job assessment must be undertaken in a closely simulated workplace environment.</p>  |
| 5. Guidance information for assessment | <p>Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended</p>  |