Republic of Rwanda
Ministry of Education

RTB | RWANDA TVET BOARD

Building Partitions

INDBP401

Build Partitions

Competence

RQF Level: 4

Learning Hours 70

Credits: 7

Sector: Construction and Building Services

Trade: Interior Design

Module Type: Specific module

Curriculum: CBSIND401-TVET Certificate IV in Interior Design

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Issue Date: June 2023

<table>
<tr><td>Purpose statement</td><td colspan="6">This module will equip students with skills to divide buildings into suitably sized rooms or halls and install partitions in the areas where it is designed to be placed. At the end of this module, the students will be able to perform interior space mapping, perform cutting, apply assembling and fixing techniques and apply partition finishes.</td></tr>
<tr><td>Learning assumed to be in place</td><td colspan="6">Interior space safety measures, Contract Management, Interior space assessment, Doors and Windows Fabrication, Interior Model Making</td></tr>
<tr><td rowspan="6">Delivery modality</td><td colspan="2">Training delivery</td><td>100%</td><td colspan="2">Assessment</td><td>Total 100%</td></tr>
<tr><td colspan="2">Theoretical content</td><td>30%</td><td rowspan="4">Formative assessment</td><td>30%</td><td rowspan="4">50%</td></tr>
<tr><td colspan="2">Practical work:</td><td rowspan="3">70%</td><td rowspan="3">70%</td></tr>
<tr><td>• Group work and presentation</td><td>30%</td></tr>
<tr><td>• Individual work</td><td>40%</td></tr>
<tr><td colspan="3"></td><td colspan="2">Summative Assessment</td><td>50%</td></tr>
</table>

Elements of Competency and Performance Criteria

Elements of competency	Performance criteria
1. Perform Interior Space mapping	1.1. Drawings are properly interpreted by comparing drawings and space
	1.2. Measurements are properly taken according to the drawing's dimensions
	1.3. The baseline is properly placed in line with designed pattern, wall shape and size
2. Perform Cutting	2.1. Proper use of interior safety measure as per their categories, functionality as required by health and safety measures
	2.2. Proper cutting of components in line with the drawing details

	2.3. Materials are properly cut in shapes according to pattern and partition shape
3. Apply assembling and fixing techniques	3.1. Fixing materials and assembling techniques are well applied according to shop drawings specifications.
	3.2. Frame systems are effectively fixed to subtract surface according to partition materials
	3.3. Partitioning components are well mounted in line with shop drawing specifications.
4. Apply finishes	4.1. Relevant Finishes materials are selected as per design specifications and client needs.
	4.2. Control-joints are well cut on elevation in line with preventing void and joint techniques
	4.3. Partition finishing materials are effectively applied according to the design requirements.
	4.4. Workplace is well cleaned in line with expected final finish and quality.

Intended Knowledge, Skills and Attitude

Knowledge	Skills	Attitude
✓ Interpret design drawings, convention symbols, and signages. ✓ Describe the material's	✓ Mark the site for partitioning ✓ Cut and assemble partitioning materials ✓ Fix partitioning accessories ✓ Apply finishes	✓ Use materials efficiently and effectively ✓ Pay attention to details while implementing partitioning design ✓ Listen to clients' needs open-mindedly

properties and applications. ✓ Identify materials, tools and equipment ✓ Identify finishing and cleaning methods. ✓ Identify cutting and assembling techniques ✓ Identify space functionalities		✓ Adapt the design to the client needs ✓ Comply with safety precaution measures

Course content

Learning outcomes	At the end of the module the learner will be able to: 1. Perform Interior Space mapping 2. Perform Cutting 3. Apply assembling and fixing techniques 4. Apply finishes
Learning outcome 1: Perform Interior Space mapping	**Learning hours: 10**
Indicative content	

- **Interpret partition drawings**
  - ✓ Plans
  - ✓ Interior elevations.
  - ✓ Wall sections.
  - ✓ Interior details.
  - ✓ Schedules
  - ✓ Room finish
- **Interior space measurements**
  - ✓ Unit of measurements
  - ✓ Dimensions
  - ✓ Baseline measurements

Resources required for the learning outcome	
Equipment	▪ Helmet ▪ Face mask ▪ ear plug ▪ gloves ▪ Safety boots ▪ goggles ▪ Belts ▪ Overall
Materials	▪ Microfibre cleaning cloth ▪ Chalk ▪ Charcoal ▪ Graphite stick
Tools	▪ Measuring tape ▪ Masking tape ▪ Screw driver

	▪ Pen ▪ Marker ▪ Pencil ▪ Brushes ▪ Square ruler ▪ Scissors
Facilitation techniques	▪ Create small groups and ask trainees to draw simple partition layout for an office workspace showing plans and interior elevations ▪ Trainees mark where the partitions will be built.
Formative assessment methods /(CAT)	▪ Written assessment ▪ Performance assessment ▪ Product based assessment.

Learning outcome 2: Perform cutting	**Learning hours: 20**
Indicative content	
• **Identify relevant safety measures.** • **Partitioning materials** ✓ Metals ✓ Gypsum ✓ Bricks ✓ Fibre boards ✓ Cement board ✓ PVC board ✓ MDF ✓ Plywood	

- ✓ Glass
- ✓ Wood

- **Partitioning tools and equipment**
  - ✓ Cutting machine
  - ✓ Drilling machine
  - ✓ Fixing machine
  - ✓ Rivet gun
  - ✓ Measuring tape
  - ✓ Glue gun
  - ✓ Screw driver
  - ✓ Screw gun
  - ✓ Air compressor
  - ✓ Spirit level
  - ✓ Building square
  - ✓ Building line
  - ✓ Nail gun
- **Cut components**
  - ✓ Cutting tools and equipment
  - ✓ Cutting methods
    - Manual
    - Machine

Resources required for the learning outcome	
Equipment	▪ Helmet ▪ Face mask ▪ ear plug ▪ gloves

	▪ Safety boots ▪ goggles ▪ Belts ▪ Overall ▪ Drilling machine ▪ Compressor ▪ Cutting machine
Materials	▪ Microfibre cleaning cloth ▪ Adhesives
Tools	▪ Measuring tape ▪ Masking tape ▪ Screw driver ▪ Scrapper ▪ Brushes ▪ Jigsaw, ▪ Hacksaw ▪ Silicon gun ▪ Staple gun ▪ Rivet gun
Facilitation techniques	▪ Trainer prepares a scenario which describes the types of materials to be used, function of the partition and space dimensions. ▪ Create small groups of 3-5 students and ask them to select partitioning materials and discuss on cutting techniques required to each selected material. Students present their findings to the whole class. ▪ The same groups are given tasks to cut components required to build selected partitions. ▪ This activity should be guided by the teacher.

Formative assessment methods /(CAT)	▪ Oral presentation ▪ Written assessment ▪ Performance based assessment ▪ Product based assessment

Learning outcome 3: Apply assembling and fixing techniques	**Learning hours: 25**
Indicative content	

- **Assemble components**
  - ✓ Assembling tools and equipment
  - ✓ Assembling techniques
    - Screwing
    - Gluing
    - Riveting
    - Bolts and nuts
    - Welding
- **Fixing materials**
  - ✓ Screws
  - ✓ Rivets
  - ✓ Angle
  - ✓ Nails
  - ✓ Hooks
  - ✓ Wall plugs
- **Types of framing**
  - ✓ Wood

- ✓ Metal
- ✓ Concrete
- ✓ Plastic

- **Mounting procedures**
  - ✓ Marking the surface
  - ✓ Fixing of components

Resources required for the learning outcome	
Equipment	▪ Helmet ▪ Face mask ▪ ear plug ▪ gloves ▪ Safety boots ▪ goggles ▪ Belts ▪ Overall ▪ Drilling machine ▪ Compressor ▪ Ladder ▪ Scaffolds
Materials	▪ Microfibre cleaning cloth ▪ Adhesives
Tools	▪ Measuring tape ▪ Masking tape ▪ Screw driver ▪ Brushes ▪ Jigsaw

	▪ Hacksaw ▪ Silicon gun ▪ Staple gun ▪ Rivet gun
Facilitation techniques	▪ Refer to Learning outcome 2 scenario ▪ Trainees assemble and fix the prepared materials on the surface with trainer's guidance.
Formative assessment methods /(CAT)	▪ Oral presentation ▪ Performance assessment ▪ Product based assessment.

Learning outcome 4: Apply finishes	**Learning hours: 15**
Indicative content	
• **Partitioning finishing** ✓ Facing ✓ Wallpapering ✓ Woodworking ✓ Plastering ✓ Painting ✓ Flooring (tiles, wood, parquet, laminate, carpets, rugs) ✓ Glazing ✓ Varnishing • **Control joints**	

- ✓ Isolation
- ✓ Expansion
- ✓ Construction

- **Cleaning the workplace**
  - ✓ Cleaning techniques
  - ✓ Cleaning materials, tools and equipment
  - ✓ Storing materials, tools and equipment

Resources required for the learning outcome	
Equipment	▪ Helmet ▪ Face mask ▪ ear plug ▪ gloves ▪ Safety boots ▪ goggles ▪ Belts ▪ Overall ▪ Drilling machine ▪ Cutting machine ▪ Compressor
Materials	▪ Microfibre cleaning cloth ▪ Adhesives ▪ Color wheel
Tools	▪ Measuring tape ▪ Masking tape ▪ Screw driver ▪ Scrapper

	▪ Brushes ▪ Jigsaw, hacksaw ▪ Silicon gun ▪ Staple gun ▪ Rivet gun
Facilitation techniques	▪ Refer to Learning outcome 2 scenario ▪ Students apply relevant finishes on the partitions with teachers 'guidance. ▪ Students share their experiences learnt during the learning activities.
Formative assessment methods /(CAT)	▪ Performance assessment ▪ Project based assessment ▪ Oral presentation

Integrated/Summative assessment

Integrated situation

Innovation for Design and Construction Ltd company located in Kigali has acquired a new space for rental. The acquired space is an open space building and they would like to create smaller working offices and workstations to accommodate its administrators and staff members respectively. The total area of the acquired space measures 12m x 15m. The company has approached you as a Build Partition Technician to assist them on their new project. The company has provided you with the following specifications.

- ✓ CEO's office measuring 6m x 5m
- ✓ Assistant CEO's office measuring 3m x 5m
- ✓ Board room measuring 8,5m x 6m
- ✓ Chief accountant's office measuring 3m x 5m
- ✓ Reception area 5m x3m
- ✓ Kitchen and store room 2.5x6
- ✓ Washroom 3mx6m
- ✓ The remaining space will be reserved for the workstation

You are required to:

1. Prepare to build partition sketches for the space showing all the details including:
   - ✓ Plans.
   - ✓ Interior elevations.
   - ✓ Building and wall sections.
   - ✓ Interior details.
2. Select the partition materials required to complete the project.
3. Partition the building space as per the provided specifications and requirements
4. Apply finishes

Additional information

- ✓ Consider the interior space safety measures.
- ✓ Select the appropriate materials, tools, and equipment
- ✓ All the materials are available at the site.
- ✓ The project will be done in 24 hours under supervision

Resources

Tools	Drawing tools, measuring tools, cutting tools, Calculator, Measuring tape, Masking tape, Screwdriver, Brushes, Jigsaw, Hacksaw, Silicon gun, Staple gun, Rivet gun, glue gun
Equipment	PPE, Computer, Printer, drilling machine, Cutting machine, Air compressor
Materials/ Consumables	Paper, Pencil, Pens, Microfibre cleaning cloth, Adhesives, Color wheel, Partitioning materials

Assessable outcomes	Assessment criteria (Based on performance criteria)	Indicator	Observation		Marks allocation
			Yes	No	
1. Perform Interior Space mapping	Measurements are properly taken according to the drawing's dimensions	Space measurements are well taken Measuring tools identified – Tape measure – Decametre – Tee square – Ruler			5

		Features are properly checked			
		Drawing dimensions, annotations and symbols identified – Length – Width – Height – Linear – Angular			5
	The baseline is properly placed in line with designed pattern, wall shape and size	Baseline markings identified – Patterns – Shapes – Sizes – distance			5
2. **Perform Cutting and assembling**	Proper use of interior safety measure as per their categories, functionality as required by health and safety measures	Safety measures identified – PPEs – Safety regulations			5
	Proper cutting and assembly of components in line with the drawing details	Cutting methods – Manual – Machine			5
		Cutting tools – Jigsaw – Hacksaw			5
		Assembling tools and materials – Adhesives – Silicon gun – Staple gun – Rivet gun – Bolts and nuts			5

	Materials are properly cut in shapes according to pattern and partition shape	Partitioning materials identified – Metals – Gypsum – Bricks – Fibre boards – Cement board – PVC board – MDF – Plywood – Glass – Wood			2.5
		Markings identified – Patterns – Shapes – Sizes – distance			5
		Cutting methods – Manual – Machine			5
3. Apply assembling and fixing techniques	Fixing materials and assembling techniques are well applied according to shop drawings specifications.	Fixing materials identified – Screws – Rivets – Angle – Nails – Hooks – Wall plugs			2.5
		Assembling techniques identified – Screwing – Gluing – Riveting – Bolts and nuts – Welding			5
		Shop drawings – Detailed plans – Detailed designs			5

	Frame systems are effectively fixed to subtract surface according to partition materials	Partitioning materials identified – Metals – Gypsum – Bricks – Fibre boards – Cement board – PVC board – MDF – Plywood – Glass – Wood			5
		Types of framing identified – Wood – Metal – Concrete – Plastic – Glass			5
	Partitioning components are well mounted in line with shop drawing specifications.	Shop drawings interpreted – Detailed plans – Detailed designs			2.5
		Mounting procedures – Marking the surface – Fixing of components			5
4. Apply finishes	Relevant Finishes materials are selected as per design specifications and client needs.	Finishes identified – Facing – Wall papering – Woodworking – Plastering – Painting – Flooring (tiles, wood, parquet, laminate, carpets, rugs) – Glazing – Varnishing			5

	Control-joints are well cut on elevation in line with preventing void and joint techniques	Control joints identified – Isolation – Expansion – Construction			5
	Partition finishing materials are effectively applied according to the design requirements.	Finishes identified – Facing – Wall papering – Woodworking – Plastering – Painting – Flooring (tiles, wood, parquet, laminate, carpets, rugs) – Glazing – Varnishing			5
	Workplace is well cleaned in line with expected final finish and quality.	Cleaning techniques identified			2.5
		Cleaning materials, tools and equipment			2.5
		Storing materials, tools and equipment			2.5
Total marks					100
Percentage Weightage					100%
Minimum Passing line % (Aggregate):					70%

References

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