

PRACTICAL CURRICULUM · CORE AND NINE TRADE PATHWAYS · 2 YEARS FULL-TIME

# PREFAB & MODULAR



Two years, nine trades, one building: from prefabrication in the workshop to assembly and installation on site. **From the foundation to the finished building and handover.**

## THE PROGRAMME

# A modular building is the work of many trades. Here they learn to erect it together.



**Prefabricated & Modular Construction is a two-year, practice-based full-time programme for building modular structures.**

In the first year, building elements are prefabricated and modular containers are assembled in the workshop. In the second year follow foundation, assembly and installation on site, in three construction methods: modular containers, panel buildings and light-steel framing.

A common core connects nine trade pathways, from welding, metal fabrication and sheet metal work through masonry/concrete, electrical and plumbing to carpentry, coating and work preparation..

Learning takes place in around 3,000 practical hours on real building components, with local building materials and insulation. Every cohort erects a complete building as its final project.

The programme is offered as a curriculum, as a matching equipment specification or as a turnkey package for your site.

**2**

YEARS FULL-TIME

**3,000<sub>h</sub>**

PRACTICAL HOURS

**23**

MODULES • 4 PHASES

**9**

TRADE PATHWAYS

**190<sub>+</sub>**

PRACTICAL EXERCISES

## PRACTICAL CURRICULUM

# 23 modules

A common core and nine trade pathways: prefabrication in the first year, foundation, assembly and installation in the second, concluding with the construction of a complete building.

### MODULE

### 01 TO 23 · BY PHASE

**01 Prefabricated building systems**  
CORE

**02 Safety and lifting**  
CORE

**03 Reading technical drawings**  
CORE

**04 Local building materials, Africa**  
CORE

**05 Insulation for tropical climates**  
CORE

**06 Steel profiles and welding**  
PREFABRICATION

**07 Modular containers (flat-pack)**  
PREFABRICATION

**08 Sandwich panels, flashings**  
PREFABRICATION

**09 Elements and pre-installation**  
PREFABRICATION

**10 Masonry and earth blocks**  
PREFABRICATION

**11 Factory inspection, test piece**  
PREFABRICATION

**12 Foundation, plinth, manholes**  
ASSEMBLY

**13 Setting up modular containers**  
ASSEMBLY

**14 Assembling panel buildings**  
ASSEMBLY

**15 Erecting light-steel buildings**  
ASSEMBLY

**16 Building envelope, rainwater**  
ASSEMBLY

**17 Interior fit-out and tiling**  
FIT-OUT AND SERVICES

**18 Surface finishes**  
FIT-OUT AND SERVICES

**19 Electrical and earthing**  
FIT-OUT AND SERVICES

**20 Plumbing, wastewater, air con**  
FIT-OUT AND SERVICES

**21 Testing and acceptance**  
HANDOVER

**22 Commissioning, handover**  
HANDOVER

**23 Final project: building**  
FINAL PROJECT

EQUIPMENT

# Trained in the workshop and on the assembly field.



01

## Light-steel construction & welding

Profile processing, MAG welding, joining and corrosion protection technology.

02

## Panels, sheet metal & building envelope

Panel processing, folding machine, gutters as well as roof and facade connections.

03

## Concrete, masonry & earth blocks

Formwork, reinforcement, mixing equipment, earth block press, masonry and tiling tools.

04

## Drywall & interior fit-out

Stud framing, boards, doors, windows and fit-out tools.

05

## Electrical, plumbing & air conditioning

Training walls for installation, earthing, wastewater and split air conditioning.

06

## Assembly, lifting & surveying equipment

Assembly field, lifting gear, scaffolding, levelling and setting-out instruments.

07

## Drawing & CAD workstations

Drawing reading, shop and assembly documents, as-built documentation.

08

## Measuring, testing & safety equipment

Acceptance testing, PPE and fall protection for 30 persons.

**~470 ITEMS · 8 CATEGORIES**

BRING THE PROGRAMME TO YOUR SITE

# LET'S GET STARTED.



AVAILABLE AS • **Turnkey** (consulting + equipment + delivery + curriculum + installation)