

TECHNICAL CURRICULUM · MASONRY, CONCRETE & STRUCTURAL PROTECTION · FULL-TIME

MASONRY



A complete, practice-based training program for masonry, solid construction and structural protection.
Solidly built, precisely tested.

THE PROGRAM

A load-bearing wall does not happen by chance. This program builds the skills for it, from the foundation to the finished structure.



Masonry & Solid Construction is a practice-based full-time program for masonry, concrete and solid construction including structural protection.

Across twenty-three specialist modules, trainees progress from building materials, mortar and surveying through masonry bonds, openings and natural stone construction to concrete, foundations, plaster, screed, waterproofing and repair.

The focus is on practice throughout. Learning takes place on real stone, real mortar and real equipment, with around 1,500 hours of technical learning and over 130 assessed exercises.

Each module concludes with an assessed test piece, so competence shows in real work and not on paper. German technical depth above the international benchmark from CTS India and CDACC Kenya shapes the structure.

The program is offered as a curriculum, as a matching equipment specification or as a turnkey package for the location.

23

SPECIALIST MODULES · CORE

1.500_h

TECHNICAL LEARNING

130₊

PRACTICAL EXERCISES

~180

EQUIPMENT ITEMS

2_{Years}

FULL-TIME

PRACTICAL CURRICULUM

MODULE

01 – 23 · BY PHASE

Twenty-three modules, in five phases.

From building materials, mortar and surveying through masonry bonds, openings and natural stone construction to concrete, foundations, plaster, waterproofing and repair, concluding with the integrated masonry component.

01 Introduction to Construction & Site
FUNDAMENTALS

02 Occupational Safety & Environmental Protection
FUNDAMENTALS

03 Building Materials & Construction Chemistry
FUNDAMENTALS

04 Construction Drawing & Measurement
FUNDAMENTALS

05 Mortar & Plaster Mortar
CORE SKILLS

06 Surveying & String Lines
CORE SKILLS

07 Simple Masonry
CORE SKILLS

09 Piers, Corners & Junctions
MASONRY & CONCRETE

10 Openings: Lintels & Arches
MASONRY & CONCRETE

11 Natural Stone & Rubble Masonry
MASONRY & CONCRETE

12 Concrete & Reinforced Concrete
MASONRY & CONCRETE

13 Foundations & Footings
MASONRY & CONCRETE

14 Reinforced Masonry & Ring Beams
MASONRY & CONCRETE

15 Interior & Exterior Plaster
FINISHING & PROTECTION

17 Tiling & Flooring (Basics)
FINISHING & PROTECTION

18 Waterproofing & Drainage
FINISHING & PROTECTION

19 Thermal Insulation (ETICS)
FINISHING & PROTECTION

20 Renovation & Repair
FINISHING & PROTECTION

21 Measurement & Quantity Take-off
QUALITY & COMPLETION

22 Quality Assurance & Acceptance
QUALITY & COMPLETION

23 Final Project: Masonry Component
QUALITY & COMPLETION

EQUIPMENT

Trained on stone, mortar and equipment.



01

Masonry & Mortar Tools

Trowels, jointers, straightedge, mortar tubs and mixing equipment for masonry and plaster.

02

Surveying & Setting Out

String frames, spirit levels, levelling instruments and tools for position and height.

03

Concrete, Formwork & Reinforcement

Formwork panels, vibrators, tying and reinforcement tools as well as test specimen moulds.

04

Plaster, Screed & Flooring

Plastering and screeding equipment, screed rails, darbies and flooring tools.

05

Waterproofing, Insulation & Protection

Tools for waterproofing, ETICS, drainage and structural protection.

06

Measuring, Testing & Protective Equipment

Measuring means, testing devices as well as PPE, dust and scaffold safety.

~180 ITEMS · 6 CATEGORIES

BRING THE PROGRAM TO YOUR LOCATION

LET'S GET STARTED.

AVAILABLE AS • **Turnkey** (Consulting + Equipment + Delivery + Curriculum + Setup)