

TECHNICAL CURRICULUM · POWER, BUILDING & ELECTRONICS · FULL-TIME

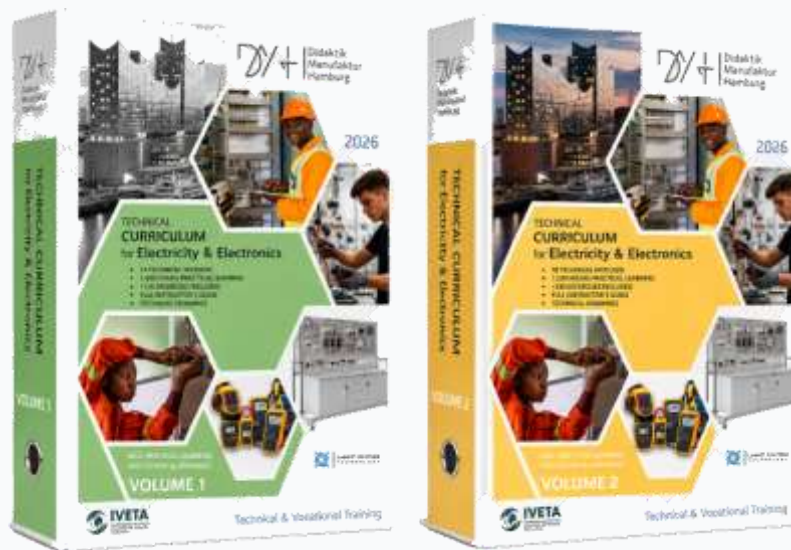
ELECTRICITY & ELECTRONICS

A complete, hands-on training programme for installation, control cabinets and electronics.

Cleanly wired, safely tested.

THE PROGRAMME

Electricity is invisible, a fault is not. This programme builds the skill to install, test and commission safely.



Electricity & Electronics is a hands-on, full-time programme for power and building services, control technology and electronics.

Across sixteen core modules, trainees advance from electrical fundamentals through installation, protection and testing, control cabinet assembly and drives, to electronics and building systems technology.

The focus is on practice throughout. Learning takes place on installation walls, control cabinet trainers and real measuring instruments, with around 1,500 hours of specialist learning and over 130 assessed exercises.

Each module concludes with an assessed test piece, so competence shows in real work and not on paper. Testing and documentation to VDE and DGUV are an integral part, not an add-on.

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

16

CORE MODULES

1.500_h

PRACTICAL LEARNING

130₊

PRACTICAL EXERCISES

120₊

EQUIPMENT ITEMS

2_{years}

FULL-TIME

PRACTICAL CURRICULUM

Sixteen modules

From electrical fundamentals through installation, protection and control cabinet assembly to machines, electronics and building systems technology, concluding with the customer order as the final project.

MODULE

01 – 16 · IN PHASES

01 Occupational safety & DGUV V3
FUNDAMENTALS

07 Protective measures & testing
INSTALLATION

13 Digital & microcontrollers
ELECTRONICS

02 Tools & machine studies
FUNDAMENTALS

08 Distribution & control cabinet
INSTALLATION

14 Measuring, testing, fault-finding
ELECTRONICS

03 Electrical fundamentals
FUNDAMENTALS

09 Machines & drives
CONTROL

15 Building systems technology
BUILDING & COMPLETION

04 Technical maths & schematics
FUNDAMENTALS

10 Control technology
CONTROL

16 Customer order & completion
BUILDING & COMPLETION

05 Cables & connection technology
INSTALLATION

11 PLC fundamentals
CONTROL

06 Building electrical installation
INSTALLATION

12 Components & analogue technology
ELECTRONICS

EQUIPMENT

Trained on wall, cabinet and board.



01

Workshop machines & workstations

Assembly and ESD workstations, drilling, sawing and grinding equipment, storage.

02

Hand & power tools (VDE)

Insulated VDE tool sets, crimping, stripping and pipe-working tools, cordless devices.

03

Measuring & testing equipment

Multimeters, installation and appliance testers, insulation measurement, oscilloscope and laboratory power supplies.

04

Installation & training systems

Installation walls, control cabinet, drive and PLC trainers for station-based operation.

05

Electronics & control technology

Electronics experiment systems, microcontroller learning stations and control components.

06

Consumables & installation material

Cables, installation and control cabinet material, electronic components and protective equipment.

~96 ITEMS · 6 CATEGORIES

BRING THE PROGRAMME TO YOUR SITE

LET'S BEGIN.

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