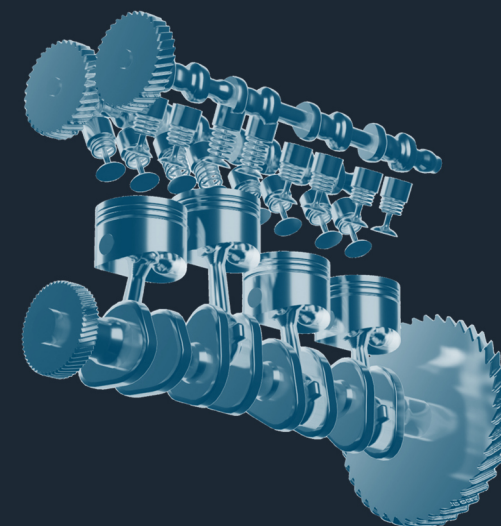


TECHNICAL CURRICULUM · AUTOMOTIVE MECHATRONICS · FULL-TIME

AUTOMOTIVE

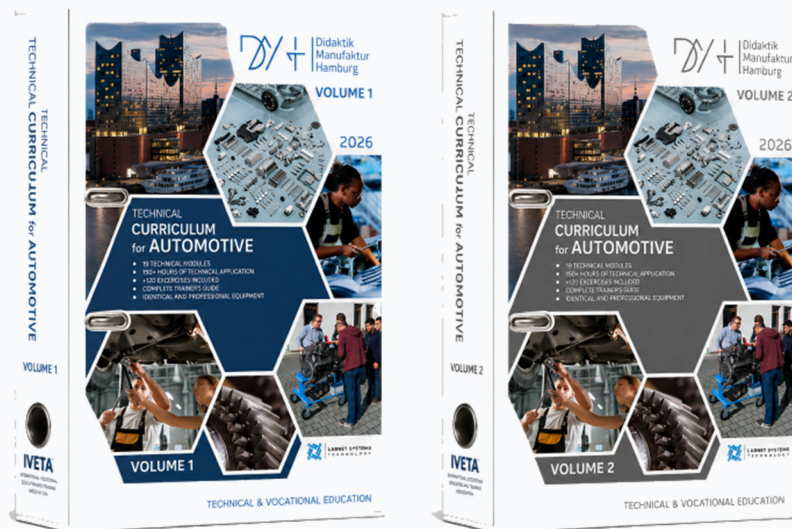
A complete, hands-on training programme for vehicle diagnostics, repair and service.

From the combustion engine to high-voltage technology.



THE PROGRAMME

Getting a vehicle safely back on the road takes skill, not luck. This programme builds that skill, from the first bolt to high-voltage diagnostics.



Automotive is a hands-on, full-time programme in automotive mechatronics.

Across twenty-five technical modules, trainees work their way from workshop fundamentals and safety through the combustion engine, powertrain and chassis to vehicle electrics, electromobility and systematic diagnostics.

The focus is on practice throughout. Learning takes place on real vehicles, on real assemblies and with professional diagnostic and workshop equipment, across more than 120 assessed exercises.

Every module concludes with an assessed test piece, so competence shows in real work rather than on paper. Safety, common faults and material requirements are firmly built into every module.

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

25

TECHNICAL MODULES

6

PHASES

120 +

PRACTICAL EXERCISES

370 +

EQUIPMENT ITEMS

2 years

FULL-TIME

PRACTICAL CURRICULUM

Twenty-five modules, in phases.

From workshop fundamentals and safety through engine, powertrain and chassis to electrics, high-voltage technology and diagnostics, concluding with a complete vehicle overhaul.

MODULE

01 – 25 · IN PHASES

01 Workshop & Safety

FUNDAMENTALS & SAFETY

02 Metrology & Materials

FUNDAMENTALS & SAFETY

03 Joining Technology

FUNDAMENTALS & SAFETY

04 Drawings & Wiring Diagrams

FUNDAMENTALS & SAFETY

05 Electrical Systems & Wiring

FUNDAMENTALS & SAFETY

06 Combustion Engine: Basics

ENGINE & MANAGEMENT

07 Engine Overhaul

ENGINE & MANAGEMENT

08 Cooling & Lubrication

ENGINE & MANAGEMENT

09 Fuel & Mixture Formation

ENGINE & MANAGEMENT

10 Charging & Exhaust

ENGINE & MANAGEMENT

11 Engine Management & OBD

ENGINE & MANAGEMENT

12 Clutch & Manual Gearbox

DRIVETRAIN & CHASSIS

13 Drivetrain & Differential

DRIVETRAIN & CHASSIS

14 Chassis & Wheel Alignment

DRIVETRAIN & CHASSIS

15 Steering Systems

DRIVETRAIN & CHASSIS

16 Braking Systems & ABS/ESP

DRIVETRAIN & CHASSIS

17 Wheels, Tyres & TPMS

DRIVETRAIN & CHASSIS

18 Power Supply & Starting

ELECTRICS & COMFORT

19 Lighting & Bus Systems

ELECTRICS & COMFORT

20 Comfort, Safety & ADAS

ELECTRICS & COMFORT

21 A/C & Thermal Management

ELECTRICS & COMFORT

22 E-/Hybrid & HV Safety

E-MOBILITY & HV

23 HV Components & E-Drive

E-MOBILITY & HV

24 Fault Finding & Service

DIAGNOSTICS & COMPLETION

25 Final Project: Vehicle

DIAGNOSTICS & COMPLETION

EQUIPMENT

Trained in the workshop and on the vehicle.



01

Diagnostics & Measurement

Diagnostic units, multimeters, oscilloscopes and exhaust-gas and A/C service measurement equipment.

02

Lifting & Workshop Equipment

Vehicle lifts, jacks, engine cranes, presses and basic workshop equipment.

03

Engine & Drivetrain Tools

Engine assembly stands, timing and special tools as well as torque equipment.

04

Brake, Chassis & Tyre Equipment

Brake bleeders, wheel alignment, tyre changers and balancing machines.

05

Electrical, A/C & HV Equipment

A/C service, battery service, insulated HV tools and protective equipment.

06

Hand Tools, Consumables & PPE

Hand tool sets, workshop consumables, PPE as well as storage and organisation systems.

370+ ITEMS · 6 CATEGORIES

BRING THE PROGRAMME TO YOUR SITE

LET'S GET STARTED.

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