2026

Didaktik
Manufaktur
Hamburg



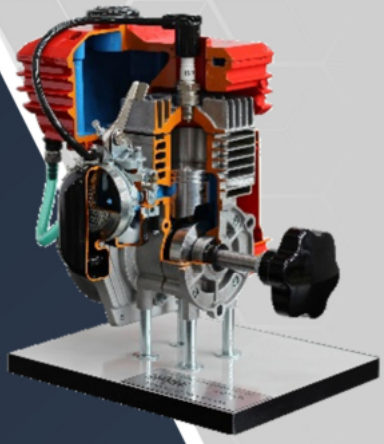




Department workshop

MOTORCYCLE
Repair & Maintenance

- 22 TECHNICAL MODULES
- 1.500 HOURS OF APPLICATION
- +130 EXCERCISES INCLUDED
- TRAINER´S GUIDE
- TECHNICAL CURRICULUM







LABNET SYSTEMS
TECHNOWLEDGY

IVETA
INTERNATIONAL VOCATIONAL EDUCATION AND TRAINING ASSOCIATION

TECHNICAL & VOCATIONAL TRAINING

Didaktik Manufaktur Hamburg

Didaktik Manufaktur Hamburg LLC – Company Profile

Since 2009, DMH has been delivering projects worldwide as part of the LABNET Systems Group, headquartered in Dubai, United Arab Emirates. With successful operations across 29 countries, the company has established a strong international presence in the field of technical and vocational project development.

Originally founded as a specialist in technical and didactic consulting, the company has continuously evolved. Since 2021, this expertise has expanded into a comprehensive project integration approach—bringing together innovation, operational performance, and fully customized solutions under one roof.

Today, DMH offers an integrated service portfolio that combines strategic consulting, advanced technical expertise, and full-scale implementation. This end-to-end approach ensures seamless project execution across a wide range of sectors, particularly in technical and vocational education and training.

With many years of hands-on experience, the company works in close partnership with its clients to design and deliver tailored solutions. Each project is carefully aligned with specific operational requirements, strategic objectives, and local framework conditions, ensuring both relevance and long-term impact.

Driven by the conviction that education is a fundamental catalyst for progress and sustainable innovation, Didaktik Manufaktur Hamburg develops comprehensive solutions that unite technical excellence, economic efficiency, and strong pedagogical value.

Through this holistic approach, the company continues to support institutions and organizations worldwide in building future-ready skills and infrastructure.



Your DMH TEAM !

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LABNET SYSTEMS
TECHKNOWLEDGY

Didaktik Manufaktur Hamburg



01 / ABOUT DMH

Who We Are & What We Offer

Didaktik Manufaktur Hamburg (DMH) is a German company and part of the LABNET SYSTEMS Group, bringing together experienced engineers and educational specialists across a wide range of technical and industrial disciplines.
We provide consulting, technical equipment and integrated training solutions for schools, vocational training institutions and universities worldwide.

Our Philosophy · Learning Through Real Production

Inspired by the internationally recognised German Dual Vocational Training System, our approach combines theoretical knowledge with practical skills and real-world industrial experience.

Wherever feasible, we integrate fully operational production facilities into vocational training environments, enabling students to participate in entire industrial processes – from raw materials to finished products.

These multidisciplinary solutions are supported by tailored, practice-oriented curricula.



FROM SINGLE EQUIPMENT TO COMPLETE TURNKEY FACILITIES

From a single training device to a fully integrated vocational training centre — no project is too small or too complex!

DMH offers flexible solutions covering individual equipment, specialised training modules, small- and large-scale extensions of existing departments, workshop modernisation, complete departments and fully integrated turnkey facilities.

Our services range from initial, no-obligation consultancy and project planning to equipment selection, integration, installation, commissioning, technical training and after-sales support.

Our objective is to create efficient, economically viable and future-oriented training environments that maximise educational impact, operational performance and long-term value.

DMH – Bridging Education, Technology & Real-World Production.

Practical Skills. Real Production. Sustainable Futures.



TVET DEPARTMENT / MOTORCYCLE MECHANICS

MOTORCYCLE MECHANICS

Motorcycle mechanic – vocational training solution

Our comprehensive offering includes **all tools, machines and equipment** required for training in a modern workshop for **motorized two- and three-wheelers**. The complete workshop is designed for apprentices, vocational and technical schools and training programmes in motorcycle technology. It covers **motorcycles and scooters**, **three-wheelers** (tuk-tuks, auto-rickshaws and cargo trikes) and **electric two- and three-wheelers** – a safe, efficient and practice-oriented learning environment.



Real engines, real repairs

The basic configuration is designed for **16 to 24 apprentices** (expandable), working in small groups across the machine stations, and is **100% compliant with international standards** for vocational training in the two- and three-wheeler sector. Operated as a **training garage**, the workshop can service local two- and three-wheelers – real repair and service processes for the apprentices, **opportunities for self-financing** for the institution.

The curriculum **Motorcycle Mechanic** is centred on the fleet that actually keeps local communities moving – **small single-cylinder commuter motorcycles and commercial three-wheelers**. It deliberately includes **small-engine servicing** (generators, water pumps), **electric mobility with battery-swap systems** and maintenance under demanding local operating conditions.

02 / RATIONALE

Why a Motorcycle Mechanics Department?

1. Keeps the fleet running that moves people and goods – commuter motorcycles and three-wheelers
2. Motorcycles, scooters, three-wheelers and electric vehicles in one workshop
3. From service and brakes to engine overhaul, electrics and diagnostics
4. Electric drive with battery swapping and high-voltage safety
5. Small engines too: generators and water pumps
6. Every module ends with an assessed examination
7. Run as a training garage – real customer repairs and self-financing
8. Professional equipment: nine lifts, diagnostic stations, frame jig, tyre corner

KEY FIGURES

+24 months full-time training	**+1,500** hours hands-on working time	**+22** modules with exercise instructions	**+130** pre-defined practical exercises
+280 individual training equipment items	**+10** workstations	**16–24** apprentices per group (expandable)	**6** equipment categories

IN THIS BROCHURE

Who we are · The department at a glance · The standard workshop · Equipment categories · How the department grows · The extension modules · The configurator · The curriculum · From planning to after-sales · Let’s get started



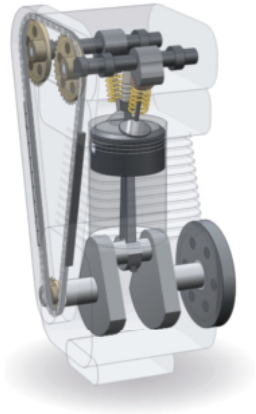
03 / WORKSHOP

The Standard Workshop

DMH supplies the complete motorcycle workshop under one roof: the main service workshop of 310 m² with nine motorcycle lifts, tuk-tuk and cargo-trike bays and the tyre corner, the engine room, the electrical, diagnostics & e-mobility room, welding & fabrication, the wash bay, spare parts, tools & batteries, the theory room for 24, changing rooms and the instructor office – with the technical room, the administration, storage halls and outdoor areas around it – together with a practice-based training programme for motorized two- and three-wheelers.

DIDACTICAL CONCEPT

- Practice first – on real machines of the actual fleet: small single-cylinder commuter motorcycles and commercial three-wheelers
- From service to diagnosis: service & maintenance → wheels, tyres & brakes → engine overhaul → fuel, ignition & electrics → diagnostics & fault finding
- Electric drive with battery swapping at the high-voltage work place – electrical safety first
- Operated as a training garage: apprentices service local two- and three-wheelers, the institution earns an income
- Every module ends with an assessed examination – competence is shown through real work, not on paper



DURATION AND OUTCOME

The programme runs full-time for more than 24 months, with more than 1,500 hours of hands-on working time and more than 130 pre-defined practical exercises. Graduates service, repair and diagnose motorcycles, scooters and three-wheelers: they maintain brakes, wheels and chassis, overhaul engines and drivetrains, find faults in electrical and electronic systems with diagnostic equipment, work safely on electric drives and battery swap systems, service small engines such as generators and water pumps, and run a workshop as a business.

TRAINED ON REAL MACHINES

Equipment in six categories

Basic Workshop Equipment & Lifting Technology

Assembly stands, lifts, workbenches, torque and hand tools.

Engine, Drivetrain & Small-Engine Tools

Special tools for engine overhaul, clutch, CVT and small engines.

Measuring, Testing & Diagnostic Equipment

Multimeters, compression testers, exhaust and diagnostic devices, OBD readers.

Electrical, Electronic & High-Voltage Equipment

Test equipment for the electrical system and electronics as well as HV protective and testing equipment.

Tyre, Brake & Chassis Tools

Tyre mounting, balancing, brake and chassis special tools.

Training Vehicles & Consumables

Training motorcycles, three-wheelers and electric vehicles together with operating fluids.

6 EQUIPMENT CATEGORIES / +280 ITEMS / +10 WORKSTATIONS / 16–24 APPRENTICES



Equipment Categories

A structured portfolio for professional motorcycle training – from the first service to diagnosis and electric drive.

CORE WORKSHOP EQUIPMENT

01 Lifts & Assembly Stands
Nine motorcycle lifts in two rows, low lifts for tuk-tuks and cargo trikes, assembly and engine stands

02 Hand & Torque Tools
Professional hand and specialty tools, torque wrenches, tool cabinets and trolleys

03 Tyre Corner
Tyre changer, wheel balancer, tyre rack and tyre mounting tools

04 Brakes, Suspension & Chassis
Brake and suspension special tools, chassis and steering tools

05 Engine & Drivetrain
Benches with single-cylinder engines to strip and rebuild, cutaway engines, special tools for engine overhaul, clutch and CVT

06 Small Engines
Generators and water pumps for small-engine servicing

07 Measuring & Diagnostics
Multimeters, compression testers, exhaust analysis and OBD diagnostics, scan tool and oscilloscope

08 Electrical Training Boards
Training boards for wiring, ignition and starter; battery test bench

09 E-Mobility & High Voltage
High-voltage work place with an electric motorbike, wall chargers, battery swap cabinet, HV protective and testing equipment

10 Welding & Fabrication
Two welding booths with fume extraction, frame jig, welding table, welding machine and gas cylinders

11 Washing & Cleaning
Wash stand with pressure washer, parts washers and sink on a drained floor

12 Training Vehicles
Training motorcycles, three-wheelers and electric vehicles with their operating fluids

TECHNICAL INFRASTRUCTURE & TRAINING

13 Spare Parts, Tools & Batteries
Shelves for parts and tyres, battery rack and safety cabinet, issue counter

14 Theory & Demonstration
24 seats, interactive display, trainer’s desk, a motorcycle on its demonstration stand and a cutaway engine

15 Compressed Air & Building Services
Technical room with compressed-air distribution, main power supply and hot water

16 Safety, PPE & Consumables
All mandatory safety and protective equipment, workwear, consumables and peripheral items

MODULAR. SCALABLE. APPLICATION-DRIVEN.

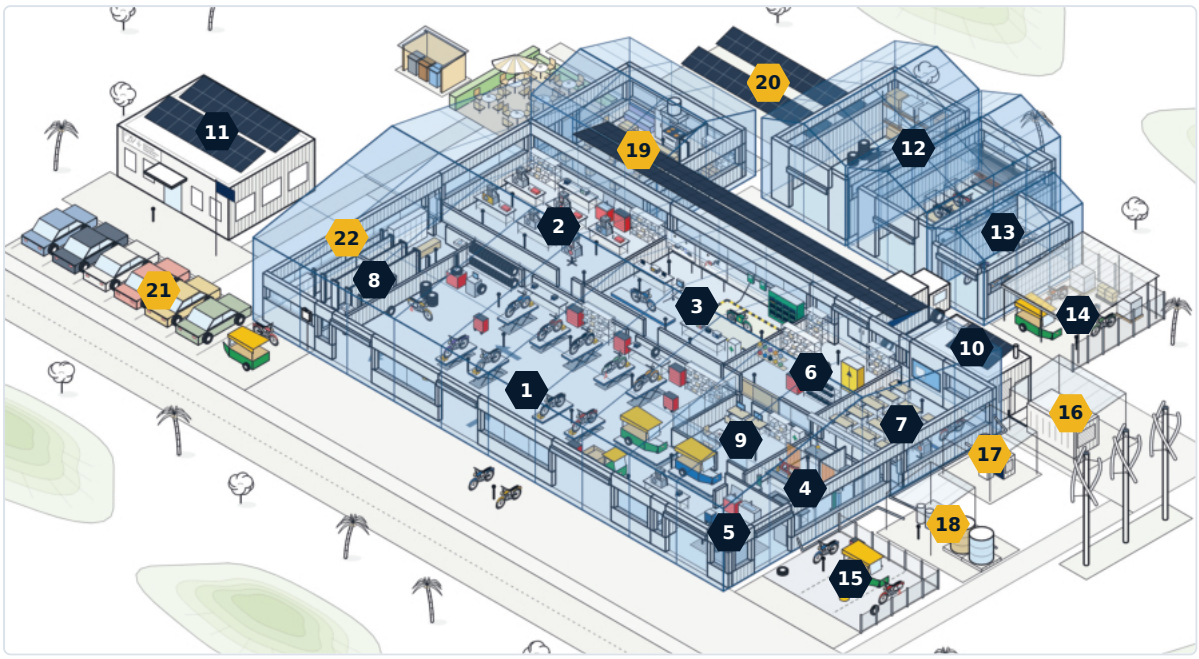
From a single training unit to the complete department: the vehicles you cover – motorcycles and scooters, three-wheelers, electric two- and three-wheelers – and the drive technologies – carburettor, simple petrol injection (EFI), electric – decide which equipment is needed, and the extensions complete the workshop. We customise everything to fit.



04 / EXPANSION

Modular Composition
How Your Department Grows

One building along the road: the main service workshop with its nine lifts and the three-wheeler bays opens onto the apron through three roller doors; the engine room and the electrical, diagnostics & e-mobility room lie behind it, spare parts, theory, welding and the wash bay at its far end, with the outdoor repair area beside the wash bay. The administration, the storage halls, the finished products store and the outdoor storage area stand around the yard. Seven units are added as needed – first those that are modules of our range, then an independent one.



- 1 Main service workshop
- 2 Engine & mechanical training
- 3 Electrical, diagnostics & e-mobility
- 4 Welding & fabrication
- 5 Washing & cleaning
- 6 Spare parts, tools & batteries
- 7 Theory & demonstration
- 8 Changing rooms & WCs
- 9 Instructor office
- 10 Technical room
- 11 School administration
- 12 Storage halls
- 13 Finished products store
- 14 Outdoor storage area
- 15 Outdoor repair area
- 16 Generator – AV-SG
- 17 Central compressor – AG-CP
- 18 Water treatment – AG-WT
- 19 Canteen & break room – EC-FC
- 20 Renewable energy – SO-PU
- 21 Parking
- 22 Hall roof – AG-WH

● The department: fifteen rooms and areas ● Optional extensions

Foundation
Site, three-phase power, treated water – planned with DMH.

Core
From service to diagnosis, with the curriculum.

Modules
Generator, compressor, water, solar, canteen, steel hall.

Extensions
Three-wheelers, e-drive, small engines, parking.

Fully operational
Trains and repairs local vehicles – with direct income.

WHY MODULAR?

Start small
The rooms you need first – lifts, engines and electrics.

Grow with demand
Add three-wheeler bays, e-mobility and more lifts as groups and customers grow.

Planned as one
Power, compressed air, water and the way of the vehicles fit together.



05 / OPTIONS

Extension Modules

Depending on the level of autonomy and complementarity desired by the training institution, DMH offers a range of additional modules tailored to the department: they ensure technical self-sufficiency, add practical and theoretical knowledge and open the workshop to more vehicles and customers – each one can be added on its own, at the start or later.



AV-SG / Electric Generator

A roofed diesel backup generator keeps lifts, diagnostic stations, welding and battery charging running during power cuts – training and customer repairs carry on.

AG-CP / Air Compressors

A central screw compressor with air receiver and dryer supplies tyre changers, air tools and the wash bay with clean, dry air; noise and heat stay outside.

AG-WT / Water Quality & Treatment

Raw- and treated-water tanks piped to the wash bay and the building: washing and hygiene go on even where the public supply is poor.

EC-FC / Canteen & Catering Equipment

A canteen and break room with kitchen, terrace and roofed waste point: trainees eat and rest on site, away from oil and fuel.

SO-PU / Solar PV Power Generation

PV panels – in the 3D plan together with small wind turbines – cut running costs and charge electric motorbikes and swap batteries with clean energy.

AG-WH / Modular Steel Halls

Prefabricated steel halls over the workshop and the side buildings, quick to put up: they protect people, machines and parts from sun, rain and heat.

HW-AM / Classroom Equipment

The theory room equipped for 24: trade theory, wiring diagrams, diagnosis and workshop management – added when theory is part of the training.

TRIKE / Three-Wheeler Extension

Keke, Bajaji, tuk-tuk: axle, differential, body and commercial operation – with low lifts and bays of their own.

E-SAFE · EV-BASIC / Electric Drive

Electrically safe workstations and the basics of electric drive and electrical safety – for e-motorbikes and battery swapping.

FRAME / Frame, Welding & Fairing Repair

Frame repair on the frame jig, welding and fairing repair as a focus of the training.

SMALL-ENGINE / Small-Engine Crossover

Generators, water pumps and agricultural machinery: the same skills, more customers.

Independent unit of the 3D plan / Parking

For cars, motorbikes and tuk-tuks, with a footpath: customers arrive safely, machines for repair keep a free way to the doors.

RELATED DEPARTMENT & ON REQUEST

Related department: **Automotive**. On request: workwear and personal protective equipment for all areas, basic experiment sets for the theory lessons, a planning concept for the workshop and a complete offer for all the equipment your selection requires.

TYPICAL COMBINATIONS

Training & theory

Core + classroom (HW-AM) + canteen (EC-FC) + water treatment (AG-WT).

Reliable on any site

Core + generator (AV-SG) + solar (SO-PU) + compressor (AG-CP) + steel halls (AG-WH).

Repair & earn

Core + three-wheelers (TRIKE) + electric drive (E-SAFE, EV-BASIC) + small engines + parking.

Every module has its own page at dmhamburg.com (Subjects → Modules); the configurator packages (gold edge) and the parking are part of the department offer and have no module page.



06 / PROJECT PLANNING

DMH-Workshop Configurator Your Project in 7 Steps

Your Vision. Our Expertise. Your Workshop.

Answer a few questions about your motorcycle workshop – the vehicles to cover, trainees, infrastructure, facilities and the drive technologies and focus areas you have in mind. Your answers determine which modules are included; our team prepares a tailored, non-binding proposal. About 5 minutes.

01 / Type & scope
Motorized two-wheelers, or two- and three-wheelers (Keke / Bajaji / Tuk-Tuk); training only, training with limited commercial operation (self-financing), or commercial operation with full or limited training.

02 / Trainees
Expected number (16–24, 24–35 or more than 35), shift operation and planned growth.

03 / Infrastructure
24/7 power, three-phase power, renewables, treated water, ventilation, buildings and a planning concept for the workshop.

04 / Facilities
Subject theory, classroom equipment, basic experiment sets, workwear and PPE for all areas.

05 / Workshop
Drive technologies, frame & fairing repair, electric-drive basics, small engines, a complete equipment offer, other requirements.

06 / Project
Financing, timing, budget, new or ongoing project, budgetary request and deadlines.

07 / Contact
Where we send the proposal – with a confirmation e-mail, and all your answers if you wish.

✓ / Your proposal
DMH prepares a tailored, non-binding offer – often with useful extension options. Available in 7 languages.

DRIVE TECHNOLOGIES AND FOCUS AREAS (STEP 05)

Carburettor
Combustion engine with carburettor – the backbone of the regional fleet

Petrol injection (EFI)
Simple injection – increasingly on newer models

Electric drive
E-moto – with electrically safe workstations

Frame & fairing
Frame, welding and fairing repair as a focus

E-drive basics
Electric drive and electrical safety

Small engines
Generators, water pumps, agricultural machinery

Vehicles (step 01): motorized two-wheelers – motorcycles & scooters: service, engine, electrics, diagnostics – or two- and three-wheelers, additionally Keke / Bajaji / Tuk-Tuk: axle, differential, body, commercial operation.

HOW IT WORKS

Smart branching: follow-up questions only appear when they matter – such as the size of a new building – and the modules and packages are added where your answers call for them: generator (AV-SG) without a reliable power supply, solar (SO-PU), steel hall (AG-WH) without buildings, classroom (HW-AM), the three-wheeler extension, electrically safe workstations, frame repair, electric-drive basics, small engines.

ONLINE / ON YOUR PHONE / ON PAPER

dmhamburg.com → Technical & Vocational Education → Motorcycle Mechanics → Configurator. Scan the code to open it directly, or use the printable questionnaire, also available as PDF in 7 languages.



07 / PRACTICAL TRAINING PROGRAM

DMH Practical Curriculum

Included as an integral component of every workshop and individually adapted to its specific requirements. **Motorcycle Mechanic** is a practice-based, full-time programme for the service, repair and diagnosis of motorized two- and three-wheelers: across twenty-two core modules, apprentices progress from chassis, brakes and engine through electrics and diagnostics to three-wheeler trades, electric drive and workshop operation.



MODULES 01 TO 22 BY PHASE

SERVICE & CHASSIS

- 01 Construction, frame & overview
- 02 Service & maintenance
- 03 Wheels, tyres & balancing
- 04 Brake systems

ENGINE & DRIVETRAIN

- 05 Combustion engine
- 06 Engine overhaul
- 07 Fuel system & exhaust
- 08 Ignition & management
- 09 Power transmission
- 10 Small-engine crossover

ELECTRICS & DIAGNOSTICS

- 11 Electrical system & starter
- 12 Electronics & diagnostics
- 13 Chassis & steering
- 14 Frame & bodywork

THREE-WHEELER & E-DRIVE

- 15 Three-wheelers: drive & axle
- 16 Three-wheeler trade & fleet
- 17 High-voltage & electric drive
- 18 Battery & swap system
- 19 African operating practice

DIAGNOSTICS & OPERATION

- 20 Fault finding & diagnostics
- 21 Conversion & registration
- 22 Workshop & business

22 MODULES · 5 PHASES

Around 1,500 hours of technical learning, more than 130 assessed exercises and an assessed examination at the end of every module.

· +24 months, full-time · Service · diagnostics · three-wheelers · e-drive · An assessed examination per module

LEARNING OUTCOMES

Upon completion, participants will be able to

01 Service and maintain motorcycles, scooters and three-wheelers to their service schedules

02 Repair wheels, tyres, brakes, chassis and steering safely

03 Overhaul engines, fuel systems, ignition and drivetrains – small engines included

04 Find faults in electrical and electronic systems with professional diagnostic equipment

05 Work safely on electric drives, high-voltage systems and battery swap systems

06 Run a workshop: customer orders, conversion & registration, costing and business

The focus is on hands-on practice throughout: training takes place on real machines from the actual fleet – mostly small single-cylinder commuter motorcycles – with around 1,500 hours of technical learning and more than 130 assessed exercises. Small engines, three-wheeler trades and electric drive with battery swapping are set up as dedicated modules. Each module ends with an assessed examination, so that the apprentices' competence is shown through real work and not on paper. The programme is offered as a curriculum, as a matching equipment specification or as a turnkey package for the site.

+22 TECHNICAL MODULES

+130 PRACTICAL EXERCISES

+24 MONTHS FULL-TIME

+1,500 HOURS HANDS-ON

+10 WORKSTATIONS



08 / SERVICES

From Planning to After-Sales

From the first idea to years after the opening, DMH accompanies the project in seven steps.

01	02	03	04	05	06	07
Consulting	Requirements	Development	Presentation	Shipping	Installation & training	After-sales

Consulting

Consulting on contemporary and sustainable technical and educational solutions – individually or within international curriculum programmes.

Requirements

Definition of the requirements and real needs together with the customer, taking all parameters into account.

Development

Development of technically compatible solutions – a purely educational project or one that generates continuous self-financing.

Presentation

Presentation and evaluation of the developed technical and didactic solutions.

Shipping

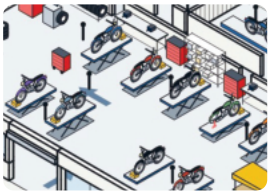
Shipping of the equipment via long-standing and reliable forwarders.

Installation & training

On-site training after installation and commissioning, plus a 10–12-day intensive programme for instructors at our production partner’s facilities before shipment.

After-sales

After-sales service directly through DMH – a service hotline five days a week and regular visits, even years after the project is completed.



WORLDWIDE SERVICE & EQUIPMENT DELIVERY

AVAILABLE AS

Curriculum

The complete practical training programme with predefined exercises and assessable examinations.

Equipment specification

The matching, coordinated equipment list for the site.

Turnkey package

Consulting + equipment + delivery + curriculum + installation + marketing.

ABOUT DIDAKTIK MANUFAKTUR HAMBURG

Since 2009, DMH has been shaping innovative education projects worldwide as part of the Labnet Systems Group, headquartered in Dubai. Our solutions are inspired by the successful German dual system: wherever possible, real production units are integrated directly into the didactic concept, supported by modular curricula developed in accordance with international standards.

Didaktik Manufaktur Hamburg

BRING THE PROGRAMME TO YOUR SITE

LET'S GET STARTED.

Take advantage of our extensive experience and expertise.

We will be happy to send you a personalised quote, accompanied by one or more useful extension options.

CONFIGURE

Answer the 7 steps of the online Motorcycle Mechanics configurator · or scan the code.

VISIT

The Motorcycle Mechanics department, its modules and curriculum:
www.dmhamburg.com

CONTACT US

Contact our sales team:
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Your Didaktik Manufaktur Hamburg Team

Hamburg · Dubai · Chmelnyzkyj · Algiers · Dar es Salaam · Kinshasa · Ndjamena

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