



Complete
solutions for
**TECHNICAL &
VOCATIONAL**
Education & Training

- FULLY INTEGRATED AND COORDINATED HIGH QUALITY EQUIPMENT SOLUTIONS
- +50 COMPLETE TVET DEPARTMENTS BASED ON THE GERMAN DUAL SYSTEM
- TURNKEY SOLUTION FROM ONE SOURCE
- COMPLETE SERVICES & TRAINING
- COMPLETE TECHNICAL TRAINING CURRICULA
- PRE-DEFINED COURSES & TRAINER'S GUIDES FOR ALL SUBJECTS

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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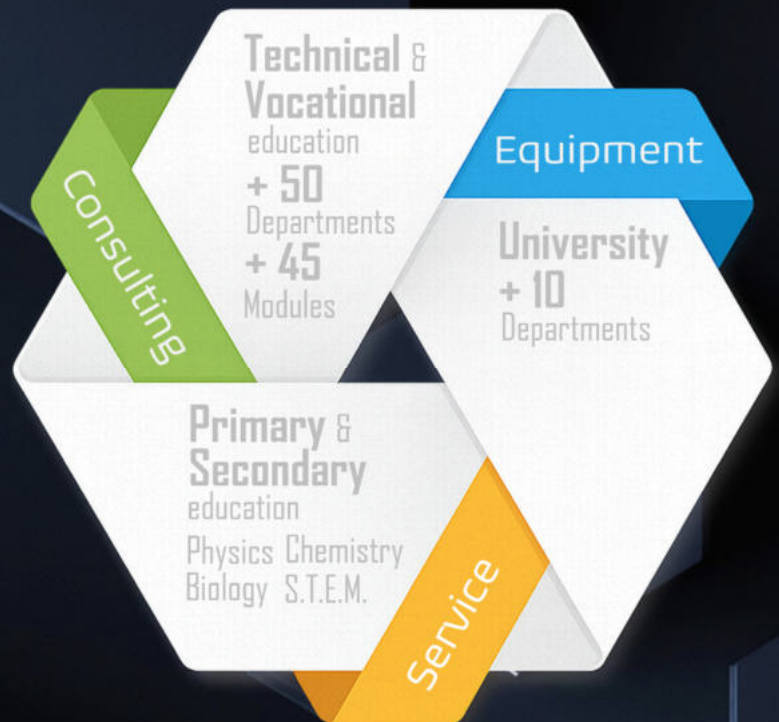
Which fields does DMH cover?

DMH covers nearly the entire spectrum of education, with a strong focus on **technical and vocational education and training (TVET)**.

For **primary and secondary education**, the company provides standardized, internationally compatible solutions, including ready-to-use course modules that can be seamlessly integrated into existing curricula.

At the **higher education** level, Didaktik Manufaktur Hamburg LLC offers specialized technical solutions across ten key disciplines.

These solutions are typically customized to meet the specific requirements of each institution, ensuring relevance, flexibility, and alignment with academic and industry standards.



How does DMH cover the full range of these fields?

At DMH, a **team of highly motivated engineers** is responsible for covering the technical and pedagogical requirements of the respective focus areas. Depending on the field, each engineer is responsible for two to five specializations.

For certain subject areas, we collaborate with a network of specialists who are involved depending on the specific project requirements. For other areas, particularly when complex solutions are required, technicians from the respective equipment manufacturers are integrated into the project.

This network represents **one of the key strengths of Didaktik Manufaktur Hamburg**. Whenever possible, local partners are also involved in order to ensure efficient project implementation.

For installation and training tasks, the project team may include our technical service staff, the responsible project manager, and/or external specialists, depending on the complexity of the project.

Training sessions are conducted depending on the project requirements at one of our **training facilities in Germany or Dubai (U.A.E.)**, as well as on-site following the installation and commissioning of the equipment.

Where is DMH worldwide active?

Today, our activities span **more than 35 countries** through direct and indirect operation, with **successfully completed projects in 29 of them**.

The Middle East and Africa represent our primary markets, supported by a well-established partner network and a solid base of returning customers.

Beyond our core markets, we are also engaged in project-based activities in regions such as Central Asia and India through the **LABNET Systems Group**, while remaining fully open to opportunities worldwide.



For more information, please visit our website :

www.dmhamburg.de



CONCEPT Didaktik Manufaktur Hamburg FOR TECHNICAL & VOCATIONAL EDUCATION AND TRAINING

Didaktik Manufaktur Hamburg (DMH) is specialized in technical education and vocational training. Inspired by the **German DUAL System**, DMH has developed an **integrated training concept** that combines high-quality technical equipment, practical training infrastructure, and a modular curriculum aligned with international standards. The program can include partial or complete production facilities depending on the client's needs and expectations, while also generating **significant self-financing**.

The DMH concept of technical and vocational education and training

In addition to providing **high-quality technical equipment**, DMH integrates **modular training programs** that can be **adapted to the specific fields** of each institution.

DMH training programs can be oriented toward **service professions** and/or **manufacturing and production sectors**, or a combination of both.

In all models, the **theoretical component remains an essential part of the curriculum**, representing approximately 30% of the program, while the remaining 70% focuses on practical training.

Classical and didactized multidisciplinary (industrial) production departments

DMH offers **more than 28 classical departments** covering the traditional fields of technical and vocational education, complemented by **over 22 specialized and industrial production Departments**.

While the classical departments primarily focus on education and **skills training**, the production departments are mostly designed as **practical production units that integrate real industrial environments** into a pedagogical setting.

These units **use locally available resources** as much as possible and guide students through the **entire production chain**—from raw materials to production preparation, including quality control, packaging, marketing, and the commercialization of finished products.

This approach enables trainees to understand the **full value creation process**.

A curriculum developed by DMH includes all these processes step by step for every department.

Added value for institutions and regions

Beyond the **strong pedagogical and motivational benefits for students**, this concept enables institutions to **generate significant additional income** through production and services, thereby contributing to self-financing.

At the same time, the model **supports local economic development**, encourages the **use of regional resources**, and helps increase the share of **locally produced goods**.

Additional expansion Modules can be integrated into both the classical and the industrial production departments according to the specific needs of each institution.

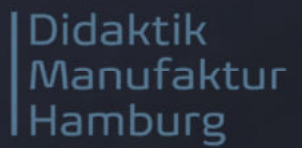
We are at your disposal to support you in the implementation of your projects.



For more information, we invite you to visit our website
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Didaktik Manufaktur Hamburg LLC





Complete solutions for
**TECHNICAL &
VOCATIONAL**
education

Departments





CLASSICAL DEPARTMENTS

TECHNICAL & VOCATIONAL TRAINING

Didaktik Manufaktur Hamburg (DMH) offers 28 Classical Departments covering the traditional fields of technical and vocational education and training.

Our modern, practice-oriented vocational training solutions combine **high-quality technical content** aligned with **international standards** with the integration - whenever possible - of fully operational industrial production units.

Our concept at a glance:

- ➔ **Turnkey solutions:** Complete and modern equipment for each workshop. Can also be acquired partially.
- ➔ **Quality:** DMH focuses on high-quality solutions designed for daily use by inexperienced learners.-
- ➔ **Balance:** A well-balanced combination of professional and didactic equipment, as well as theoretical and practical training.
- ➔ **Expansion:** Either through modules assigned to workshops or via our sub-departments linked to specialized fields.
- ➔ **Training programs (Curricula):** Comprehensive training programs fully aligned with the workshops.
- ➔ **Self-financing:** Enabled by the core concept, particularly through the numerous didactized multidisciplinary production workshops.
- ➔ **Services:** From initial pre-project consulting, to installation and training, through to after-sales support — we support you throughout the entire process.



Our complete vocational training solutions (Classical Departments) :

	1	MECHANICS & TOOL MAKING	13	AGRICULTURE	
	2	WELDING	14	TAILORING	
	3	CARPENTRY & JOINERY	15	FOOD TECHNOLOGY	
	4	AUTOMOTIVE	16	LEATHER MAKING	
	5	COMPUTER / IT	17	NURSING AND HEALTHCARE	
	6	AC & REFRIGERATION	18	PAINTING & DECORATION	
	7	MASONRY	19	GEOLOGY	
	8	SURVEYING	20	BLACKSMITHING	
	9	HOSPITALITY & CULINARY	21	AUTOMOTIVE SHEET METAL	
	10	HAIRDRESSING & BEAUTY	22	INDUSTRIAL PLUMBING	
	11	SHEET METAL WORKING	23	HYDRAULICS & PNEUMATICS	
	12	SANITARY PLUMBING	24	INDUSTRIAL ELECTRONICS	
	25	INDUSTRIAL DESIGN & METROLOGY	27	SCIENCE for TVET	
	26	RENEWABLE ENERGIES	28	VETERINARY	





Technical and Vocational Education & Training Classical Departments

Brief presentation of the workshops

www.dmhamburg.de

5. COMPUTER & IT

KEY FEATURES OF THE COURSE-WORKSHOP

- ➔ The workshop is designed for **18 to 24 trainees** (extendable).
- ➔ **Fully Equipped & Compliant** with International Standards.
- ➔ The workshop contains **more than 120 individual items**, including all professional tools, computers, complete computer room furniture, peripheral equipment, necessary software, as well as all IT equipment and a **high-performance server**.
- ➔ **Modular expandable** : 4 technical modules (incl. AI et Robotics)
- ➔ **Training Curriculum** : 17 modules, 110 courses, 2 year-program



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6. AC & REFRIGERATION

KEY FEATURES OF THE WORKSHOP

- ➔ The workshop is designed for **20 to 24 trainees** (extendable).
- ➔ **Fully Equipped & Compliant** with International Standards.
- ➔ The workshop contains **more than 90 individual items**, including all professional tools, didactic equipment, bench experiments (with course modules), sectional models, workbenches and work surfaces relevant to the profession, as well as **all necessary safety and protective equipment**.
- ➔ **Modular expandable** : 3 technical modules
- ➔ **Training Curriculum** : 28 modules, 100 courses, 2 year-program



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7. MASONRY

KEY FEATURES OF THE WORKSHOP

- ➔ Designed for **18 to 24 trainees** (extendable).
- ➔ **Fully Equipped & Compliant** with International Standards.
- ➔ The workshop contains **more than 180 individual items**, including all professional tools, drilling machines, measuring devices, cutting equipment, workbenches and work surfaces relevant to the profession, as well as **all necessary safety and protective equipment**.
- ➔ **Modular expandable** : 2 technical modules
- ➔ **Training Curriculum** : 23 modules, 130 courses, 2 year program



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8. SURVEYING

KEY FEATURES OF THE WORKSHOP

- ➔ Designed for **18 to 24 trainees** (extendable).
- ➔ **Fully Equipped & Compliant** with International Standards.
- ➔ The workshop contains **more than 180 individual items**, including professional tools, GNSS, GPS, GIS and geoinformatics equipment, drone systems, total station, and **all basic field instruments**.
- ➔ **Modular expandable** : 2 technical modules
- ➔ **Training Curriculum** : 29 modules, 130 courses, 2 year-program



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Technical and Vocational Education & Training Classical Departments

Brief presentation of the workshops

www.dmhamburg.de

9. HOSPITALITY & CULINARY

KEY FEATURES OF THE WORKSHOP

- ➔ Designed for **14 to 18 trainees** (extendable).
- ➔ **Fully equipped & Compliant** with International Standards.
- ➔ The workshop contains **more than 150 individual items**, including all professional tools, kitchen and storage equipment, tableware, cutlery, workbenches and work surfaces relevant to the profession, as well as **all necessary safety and protective equipment**.
- ➔ **Modular expandable** : 12 technical modules
- ➔ **Training Curriculum** : 35 modules, 150 courses, 2 year-program



10. HAIRDRESSING & BEAUTY

KEY FEATURES OF THE WORKSHOP

- ➔ Designed for **12 to 18 trainees** (extendable).
- ➔ **Fully equipped & Compliant** with International Standards.
- ➔ The workshop contains **more than 190 individual items**, including all professional tools, machines, expansion devices, cutting equipment, workbenches and work surfaces relevant to the profession, as well as **all necessary safety and protective equipment**.
- ➔ **Modular expandable** : 3 technical modules
- ➔ **Training Curriculum** : 32 modules, 140 courses, 2 year-program



11. SHEET METAL WORKING

KEY FEATURES OF THE WORKSHOP

- ➔ Designed for **18 to 24 trainees** (extendable).
- ➔ **Fully equipped & Compliant** with International Standards.
- ➔ The workshop contains **more than 240 individual items**, including all professional tools, drilling and sawing machines, measuring devices, cutting equipment, workbenches and work surfaces relevant to the profession, as well as **all necessary safety and protective equipment**.
- ➔ **Modular expandable** : 4 technical modules
- ➔ **Training Curriculum** : 19 modules, 95 courses, 2 year-program



12. SANITARY PLUMBING

KEY FEATURES OF THE WORKSHOP

- ➔ Designed for **16 to 22 trainees** (extendable).
- ➔ **Fully equipped & Compliant** with International Standards.
- ➔ The workshop contains **more than 200 individual items**, including all professional tools, measuring equipment, necessary tools, cutting systems, workbenches and work surfaces relevant to the profession, as well as **all necessary safety and protective equipment**.
- ➔ **Modular expandable** : 2 technical modules
- ➔ **Training Curriculum** : 23 modules, 130 courses, 2 year-program



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Technical and Vocational Education & Training Classical Departments

Brief presentation of the workshops

www.dmhamburg.de



13. AGRICULTURE (including basic Forestry)

KEY FEATURES OF THE WORKSHOP

- ➔ The workshop is designed for **24 to 28 trainees** (extendable)
- ➔ **Fully equipped & compliant** with international standards.
- ➔ The workshop contains **more than 235 individual items**, including all professional tools, small equipment, heavy field equipment, a tractor, **a complete set for forestry**, as well as all necessary equipment for comprehensive agricultural training.
- ➔ **Modular expandable** : 13 Modules & production departments.
- ➔ **Training Curriculum** : 19 modules, 130 courses, +2 years

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14. TAILORING

KEY FEATURES OF THE WORKSHOP

- ➔ The workshop is designed for **18 to 24 trainees** (extendable).
- ➔ **Fully equipped & compliant** with international standards.
- ➔ The workshop contains **more than 60 individual items**, including all professional tools, professional sewing machines, measuring tools and instruments, cutting equipment, workbenches and work surfaces relevant to the profession.
- ➔ **Modular expandable** : 1 Module + a full leather making unit
- ➔ **Training Curriculum** : 25 modules, 130 courses, +2 years

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15. FOOD TECHNOLOGY (Processing)

KEY FEATURES OF THE WORKSHOP

- ➔ The workshop is designed for **24 to 30 trainees** (extendable).
- ➔ **Fully equipped and compliant** with international standards.
- ➔ The workshop contains **more than 50 individual items**, primarily including **didactic equipment with real production processes**, such as homogenization subsystems, a laboratory pasteurizer, and many others. Covered topics include oils, dairy products, liquid foods, ingredients, etc.
- ➔ **Modular expandable** : 6 Modules, 10 production departments
- ➔ **Training Curriculum** : 22 modules, 120 courses, +2 years

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16. LEATHER MAKING

FEATURES OF THE COMPLETE TURNKEY WORKSHOP

- ➔ The workshop is designed for **18 to 22 trainees** (extendable).
- ➔ **Fully equipped and compliant with international standards.**
- ➔ The workshop includes a **complete equipment unit** covering all common specializations of the profession, including all professional machines and hand tools, cutting, measuring, finishing, and decoration equipment, and a set of consumables.
- ➔ **Extension possibility** : 3 Modules + 1 related department
- ➔ **Training Curriculum** : 18 modules, 100 courses, 2 year-program

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Technical and Vocational Education & Training Classical Departments

Brief presentation of the workshops

www.dmhamburg.de

17. NURSING & HEALTHCARE

KEY FEATURES OF THE WORKSHOP

- ➔ The workshop is designed for **18 to 24 trainees** (extendable).
- ➔ **Fully equipped** and **compliant with international standards**.
- ➔ The workshop contains **more than 250 individual items**, including all professional tools, hygiene equipment, various electronic diagnostic devices, training mannequins, oximeters, thermometers, as well as **all necessary peripheral equipment**.
- ➔ **Modular expandable** : 4 Modules + 1 extension department.
- ➔ **Training Curriculum** : 25 modules, 150 courses, +2 year-program



18. PAINTING & DÉCORATION

KEY FEATURES OF THE WORKSHOP

- ➔ The workshop is designed for **18 to 24 trainees** (extendable).
- ➔ **Fully equipped** and **compliant with international standards**.
- ➔ The workshop contains **more than 110 individual items**, including all professional tools, surface preparation equipment, hand tools, workbenches and work surfaces relevant to the profession, as well as all necessary **safety and protective equipment**.
- ➔ **Modular expandable** : 3 extension Modules
- ➔ **Training Curriculum** : 20 modules, 100 courses, 2 year-program



19. GEOLOGY

KEY FEATURES OF THE SPECIFIC EXTENSIONAL WORKSHOP

- ➔ The workshop is designed for **18 to 24 trainees** (extendable).
- ➔ **Fully equipped** and **compliant with international standards**.
- ➔ The workshop contains **more than 60 individual items**, including all professional tools, surveying equipment, measuring devices, rock identification equipment, workbenches and work surfaces relevant to the profession, as well as **all necessary peripheral equipment**.
- ➔ **Modular expandable** : 4 extension Modules
- ➔ **Training Curriculum** : 17 modules, 100 courses, 2 year program



20. BLACKSMITHING

KEY FEATURES OF THE WORKSHOP

- ➔ The workshop is designed for **18 to 22 trainees** (extendable).
- ➔ **Fully equipped** and **compliant with international standards**.
- ➔ The workshop contains **more than 50 individual items**, including all professional tools, measuring equipment, all necessary hand tools, oven systems, workbenches and work surfaces relevant to the profession, as well as **all necessary safety and protective equipment**.
- ➔ **Modular expandable** : 3 extension Modules
- ➔ **Training Curriculum** : 22 modules, 110 courses, +2 year program



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Technical and Vocational Education & Training Classical Departments

Brief presentation of the workshops

21. AUTOMOTIVE SHEET METAL

KEY FEATURES OF THE WORKSHOP

- ➔ The basic workshop is designed for **18 to 24 trainees** (extendable).
- ➔ **Fully equipped** and **compliant with international standards**.
- ➔ The workshop contains **more than 100 individual items**, including all professional tools, bending, forming, welding, and assembly equipment, as well as all necessary peripheral equipment for the profession, including all required hand tools.
- ➔ **Modular extensions** : 2 extension modules
- ➔ **Training Curriculum** : 19 modules, 130 courses, 2 year-program



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22. INDUSTRIAL PLUMBING

KEY FEATURES OF THE WORKSHOP

- ➔ The basic workshop is designed for **20 to 24 trainees** (extendable).
- ➔ **Fully equipped** and **compliant with international standards**.
- ➔ The workshop contains **more than 110 individual items**, including professional tools, **didactical equipment with predefined courses**, welding equipment, sectional models, cutting equipment, etc., including safety equipment and hand tools.
- ➔ **Modular extensions** : 2 Modules + 3 related Departments
- ➔ **Training Curriculum** : 16 modules, 130 courses, +1 year-program



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23. HYDRAULICS & PNEUMATICS

KEY FEATURES OF THE WORKSHOP

- ➔ The basic workshop is designed for **18 to 22 trainees** (extendable).
- ➔ **Fully equipped** and **compliant with international standards**.
- ➔ The workshop contains **more than 60 individual items**, including **didactic benches & tools with courses**, measuring equipment, all necessary hand tools, workbenches and work surfaces relevant to the profession, as well as all necessary safety and protective equipment.
- ➔ **Modular extension** : 2 extension Modules
- ➔ **Training Curriculum** : 16 modules, +90 courses, 2 year-program

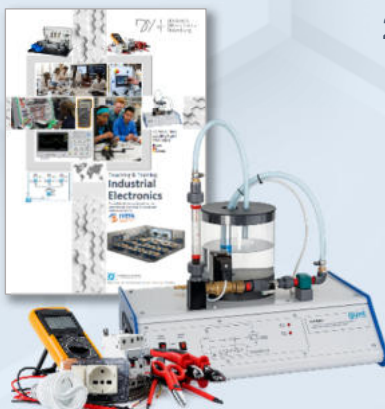


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24. INDUSTRIAL ELECTRONICS

KEY FEATURES OF THE WORKSHOP

- ➔ The basic workshop is designed for **18 to 24 trainees** (extendable)
- ➔ **Fully equipped** and **compliant with international standards**.
- ➔ The workshop contains **more than 200 individual items**, including professional tools, **didactic equipment with predefined courses**, measuring instruments, workbenches and work surfaces, fundamentals of industrial control systems, as well as **all necessary peripheral equipment**.
- ➔ **Modular extensions** : 1 extension Module, 3 related departments
- ➔ **Training Curriculum** : 24 modules, +120 courses, 2 year-program



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Multidisciplinary Didactized Production Departments (MDP)

Didaktik Manufaktur Hamburg (DMH) offers more than 20 complete real production Departments.

Our solutions for **modern, practice-oriented** technical and vocational education combine **high-quality technical content** aligned with **international standards** with the integration—whenever possible—of **fully operational industrial production units**.

While the classical Departments primarily focus on teaching and skills development, the MDP-Departments are designed as real production units that **integrate actual industrial environments** and are **100% autonomous and fully operational**.

These units prioritize, as far as possible, the **use of local resources** and guide students throughout the **entire value chain**—from raw materials and production preparation to quality control, packaging, and the commercialization of finished products.

This immersive approach enables learners to develop a **holistic understanding of value creation processes** by combining technical skills with practical know-how, from product design to market launch.

The curriculum developed by DMH integrates all these stages in a progressive and structured manner.

Added value for institutions and rural regions

Beyond the significant **pedagogical and motivational benefits** for students, this model enables institutions to generate substantial revenue through production and service activities, thereby contributing to **self-financing**.

Furthermore, this concept promotes local economic development by encouraging the use of **regional resources** and significantly increasing the share of locally produced goods.

Additional **Modules** can easily be integrated according to the specific needs of each institution.

Each department has a number of tailored Modules that can be found on our website or as part of our offering.

Each Module can be adapted depending on the needs of the enduser.

ALL DEPARTMENTS

	29	COFFEE ROASTERY	37	PALM OIL PRODUCTION	
	30	BUTCHERY & CHARCUTERIE	38	SNACKS & CONFECTIONERY	
	31	GREENHOUSE AGRICULTURE	39	OILSEED PROCESSING	
	32	ICE CREAM PRODUCTION	40	CASSAVA PROCESSING	
	33	BEER BREWING	41	MAIZE PROCESSING	
	34	WATER PURIF. & BOTTLING	42	FRUIT JUICE PRODUCTION	
	35	BEEKEEPING	43	CHEESE PROCESSING	
	36	BAKERY & PASTRY	44	SHOEMAKING & REPAIR	

All Specific Didactized Departments

	45	PLASTIC RECYCLING	48	GOLD MINING	
	46	BIOGAS PRODUCTION	49	PREFABRICATED BUILDINGS	
	47	WATER WELL DRILLING	50	FIRST AID & EMERGENCY	



Technical and Vocational Education & Training Multidisciplinary didactized production departments

Complete processing units with very high self-financing opportunity and adapted training curricula

29. COFFEE ROASTERY

KEY FEATURES OF THE WORKSHOP

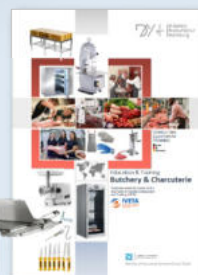
- ➔ The workshop is designed for **20 to 24 trainees** (extendable).
- ➔ **Fully equipped** and **compliant with international standards**.
- ➔ The workshop contains **more than 75 individual items**, including all professional tools, hygiene equipment, various quality control devices, a semi-automatic roasting machine, labeling equipment, furniture, as well as **all necessary peripheral equipment**.
- ➔ **Modular extension** : 1 Module
- ➔ **Training Curriculum** : 24 modules, 90 courses, 1 year-program



30. BUTCHERY & CHARCUTERIE

KEY FEATURES OF THE WORKSHOP

- ➔ The workshop is designed for **20 to 24 trainees** (extendable).
- ➔ **Fully equipped** and **compliant with international standards**.
- ➔ The workshop contains **more than 90 individual items**, including all professional tools, preparation equipment, hand tools, workbenches and work surfaces, all machines and ovens, as well as **all necessary safety and protective equipment**.
- ➔ **Modular extensions** : 3 Modules
- ➔ **Training Curriculum** : 18 modules, 120 courses, 2 year-program



31. GREENHOUSE AGRICULTURE

FEATURES OF THE COMPLETE TURNKEY WORKSHOP

- ➔ The workshop is designed for **18 to 22 trainees** (extendable).
- ➔ **Fully equipped** and **compliant with international standards**.
- ➔ The workshop includes a **complete unit** with two different types of greenhouses, comprising all professional tools, water irrigation systems, sensor-based control units, containers, ventilation systems, storage systems, manual tools, and more.
- ➔ **Modular extensions** : 2 Modules
- ➔ **Training Curriculum** : 20 modules, 110 courses, 2 year-program



32. ICE CREAM PRODUCTION

KEY FEATURES OF THE WORKSHOP

- ➔ The workshop is designed for **18 to 24 trainees** (extendable).
- ➔ **Fully equipped** and **compliant with international standards**.
- ➔ The workshop contains **more than 50 individual items**, including all professional tools, measuring equipment, all necessary hand tools, cooling systems, workbenches and work surfaces relevant to the profession, as well as tools required for hygiene and quality measurements.
- ➔ **Modular extensions** : 3 Modules
- ➔ **Training Curriculum** : 16 modules, 130 courses, 1.5 year-program





Technical and Vocational Education & Training Multidisciplinary didactized production departments

Complete processing units with very high self-financing opportunity and adapted training curricula



33. BEER BREWING

KEY FEATURES

- ➔ The workshop is designed for **18 to 22 trainees** (extendable).
- ➔ **Fully equipped** and **compliant with international standards**.
- ➔ The workshop includes a **complete production unit** for various **types of beer**, comprising all professional tools, a water treatment unit, stage-based control units, tanks for the different phases, a semi-automatic bottling system, etc.
- ➔ **Modular extensions** : 2 Modules
- ➔ **Training Curriculum** : 22 modules, 110 courses, 2 year-program

NEW WORKSHOP 2026 !

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34. WATER PURIFICATION & BOTTLING

KEY FEATURES OF THE WORKSHOP

- ➔ The workshop is designed for **20 to 24 trainees** (extendable).
- ➔ **Fully equipped** and **compliant with international standards**.
- ➔ The workshop includes a **complete unit** comprising water treatment, plastic bottle production, transport unit, bottling, quality control, labeling, packaging, and all necessary stages for continuous production.
- ➔ **Modular extensions** : 3 Modules + 1 related Department
- ➔ **Training Curriculum** : 16 modules, 130 courses, 2 year-program

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35. BEEKEEPING

KEY FEATURES OF THE WORKSHOP

- ➔ The basic workshop is designed for **18 to 24 trainees** (extendable).
- ➔ **Fully equipped** and **compliant with international standards**.
- ➔ The workshop contains **more than 95 individual items**, including all professional tools, beekeeping equipment (hives and hive accessories), honey drums, protective suits, and work surfaces relevant to the profession, as well as all labeling and packaging equipment.
- ➔ **Modular extensions** : 1 extension Module
- ➔ **Training Curriculum** : 18 modules, +90 courses, 1.5 year-program

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36. BAKERY & PASTRY

KEY FEATURES OF THE WORKSHOP

- ➔ The workshop is designed for **20 to 24 trainees** (extendable).
- ➔ **Fully equipped** and **compliant with international standards**.
- ➔ The workshop contains **all necessary professional equipment** for learning the bakery/pastry trade, including all machines, ovens, cooling equipment, small tools, workbenches and furniture, molds, and all other required items, as well as hundreds of recipes.
- ➔ **Modular extensions** : 6 Modules
- ➔ **Training Curriculum** : 25 modules, 100 courses, +2 years

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Technical and Vocational Education & Training

MULTIDISCIPLINARY DIDACTIZED PRODUCTION DEPARTMENTS

Complete processing units with very high self-financing opportunity and adapted training curricula

37. PALM OIL PROCESSING

FEATURES OF THE COMPLETE TURNKEY WORKSHOP

- ➔ The basic workshop is designed for **22 to 26 trainees** (extendable).
- ➔ **Fully equipped** and **compliant with international standards**.
- ➔ The workshop contains a **complete production unit**, including all professional tools, hygiene equipment, various quality control devices, washing machines, drying systems, dosing systems, labeling equipment, furniture, as well as all necessary peripheral equipment.
- ➔ **Modular extension** : 1 Module
- ➔ **Training Curriculum** : 19 modules, 90 courses, 2 year-program



38. SNACKS, CONFECTIONARY & CHOCOLATE PROCESSING

FEATURES OF THE COMPLETE TURNKEY WORKSHOP

- ➔ The workshop is designed for **22 to 24 trainees** (extendable).
- ➔ **Fully equipped** and **compliant with international standards**.
- ➔ Designed as a **modular, semi-automated workshop with three independent production lines**: snacks and chips, confectionery, and chocolate. Each line can be used for practical training or small-scale commercial production. Including production equipment.
- ➔ **Modular extensions** : 2 Module
- ➔ **Training Curriculum** : 25 modules, 140 courses, 2 year-program



39. OIL SEED PROCESSING

FEATURES OF THE COMPLETE TURNKEY WORKSHOP

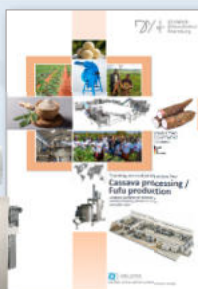
- ➔ The workshop is designed for **22 to 26 trainees** (extendable)
- ➔ **Fully equipped** and **compliant with international standards**.
- ➔ The workshop includes a **complete real production unit** covering all stages. The entire system is delivered with a **comprehensive curriculum** (20–30% theory / 70–80% practical) and is **100% compliant with learning requirements**. At the same time, the institution **generates significant self-financing**.
- ➔ **Modular extensions** : 2 Modules
- ➔ **Training Curriculum** : 19 modules, 130 courses, 2 year-program



40. CASSAVA PROCESSING

FEATURES OF THE COMPLETE TURNKEY WORKSHOP

- ➔ The workshop is designed for **20 to 24 trainees** (extendable).
- ➔ **Fully equipped** and **compliant with international standards**.
- ➔ The workshop includes a **complete real production unit** covering all stages. The entire system is delivered with a **comprehensive curriculum** (20–30% theory / 70–80% practical) and is **100% compliant with learning requirements**. At the same time, the institution **generates significant self-financing**.
- ➔ **Modular extensions** : 2 Modules
- ➔ **Training Curriculum** : 19 modules, 130 courses, 2 year-program



Technical and Vocational Education & Training

DMH TECHNICAL TRAINING CURRICULUM

For all the departments and workshops, including predefined theoretical and practical courses.

In addition to the modern workshop equipment, DMH delivers a **complete adapted technical curriculum** based on international best practices, which can be seamlessly integrated into and **adapted to any national educational framework**.



What Is the Purpose of the Technical Training Curriculum ?

The DMH curriculum is not intended to replace or function as a direct guideline for the applicable national curriculum. Instead, it serves as a **comprehensive technical and pedagogical framework** that supports its theoretical and practical implementation.

- Each curriculum is **fully tailored** to the respective national program and to the implemented workshop specifically designed to guide and **support every stage of the training process in detail**.
- All relevant processes are analyzed from a didactic perspective and translated into **practical training worksheets**, ensuring a **structured and effective learning experience**. This enables learners to understand, apply, and master both learning and production processes with **maximum efficiency** and pedagogical **impact**.
- This approach remains **equally effective** whether applied in a technical training workshop, a service department, or a pedagogically structured production facility.
- For workshops and departments with strong self-financing potential, the curriculum can be further enhanced with dedicated **basic business management and marketing modules**, providing valuable entrepreneurial and operational competencies.
- In addition to the theoretical approach, **the production process itself forms the core** of the DMH technical training curriculum. This is reflected in dedicated, progressively structured modules that build upon one another, including maintenance of the equipment.
- Furthermore, the curriculum includes a **comprehensive Trainer's Guide**, specifically designed to support instructors in the delivery of the program.
- To complete the program, DMH offers an **extensive portfolio of predefined courses** for both trainees and instructors, all fully synchronized with the curriculum.



Key features :

- ✓ Included in every workshop delivery.
- ✓ 100% adapted to each individual workshop.
- ✓ Pre-defined courses included.
- ✓ Complete trainer's guide included.
- ✓ Average 1.500 hours of practical learning
- ✓ Adaptable number of students.
- ✓ Available in 8 languages.
- ✓ Adaptable to any national Curriculum.
- ✓ Trainer's guide included.
- ✓ Complete technical modules



Modular Workshop Setup

Flexible, Scalable, and Industry-Oriented Training Solutions

Fully equipped, the core departments ensure comprehensive training across each professional field, while offering the flexibility to adapt to evolving educational and training program requirements.

Didactized Production Departments are typically **didactic solutions built around industrial production units**. While they can be thematically linked to the core departments, they also operate as fully autonomous units with a high level of specialization.

Example : Agro-Food Processing Department

Focused on the transformation of agricultural products, the Agro-Food Department is designed to teach various methods of food processing and packaging.

The workshop includes multiple real-life demonstration units and production lines, allowing learners to understand industrial processes in a practical environment without engaging in full-scale production.

Within the Agro-Food sector, DMH provides:

- 10 complete production-departments
- Easily integrated into a core department
- Modular and scalable configurations
- Designed for hands-on, industry-relevant training

Key Advantages

- ✓ Real industrial processes
- ✓ Full integration of trainees across all production stages
- ✓ Development of problem-solving skills for a wide range of operational challenges
- ✓ Generation of significant self-financing opportunities for the institution
- ✓ Added value for the regional economy
- ✓ Scalable production with expansion possibilities

MODULES

Each department can, depending on needs and requirements, integrate one or more extension modules into its workshop.

These modules generally include useful extension components of a technical nature or related to additional services.

Modules that we consider relevant are presented either on our website, always linked to the corresponding department, or as part of the overall offer.

In the same way that each workshop's content can be individually adapted across all departments, this flexibility also applies to the proposed modules.



Overall, Didaktik Manufaktur Hamburg offers more than **28 Classical Departments**, **22 Production Departments**, and **+45 individual and adapted technical modules**.

In addition, we remain open to **any additional requests** outside our standard program.

Additionally, every workshop is delivered with a **complete adapted Training Curriculum**, including **pre-defined courses**.

Don't hesitate to contact us !
Your DMH Team !





STEM



Appendix 1

S.T.E.M.



For Technical & Vocational Schools

Our STEM kits are designed to deliver hands-on, interdisciplinary learning experiences that foster critical thinking, problem-solving, and innovation.

Each kit includes a targeted set of experiments **designed for classroom use.**

Kit Features :

- All experiments include **comprehensive manuals** and **step-by-step guides.**
- A complete set, covering **six key areas** of study, is designed for **four to six students per kit.**
- **Mathematics Integration:** Each kit incorporates relevant mathematical concepts.
- **Curriculum Alignment:** Experiments are designed in accordance with NGSS and PISA standards.
- **Practicality:** Each kit contains a manageable number of experiments that can be **easily integrated into the school routine.**
- All kits are **delivered with complete equipment**, including experiment instructions and courses
- Coordinated content is **supplied in durable, robust storage boxes.**
- Integrated digital resources **enhance engagement** and **learning efficiency.**

Integrated learning across Science, Technology, Engineering, and Mathematics

STEM KIT 1 – Physics Fundamentals

Topics: Mechanics, Electricity, Optics, Energy

Experiments: Measure acceleration and velocity, investigate gas laws, analyze motion using accelerometers, and construct mechanical systems such as levers and gears.

STEM KIT 2 – Chemistry & Materials Science

Topics: Chemical Reactions, Analytical Chemistry, Electrochemistry, Material Properties

Experiments: Explore gas laws, perform titration experiments, measure pH and conductivity, and study acid-base reactions.

STEM KIT 3 – Biology & Environmental Science

Topics: Microscopy, Genetics, Ecology, Sustainability Experiments

Experiments: Conduct investigations related to environmental analysis, including pH and conductivity measurements, chemical reactions, and sustainability-focused experiments.

STEM KIT 4 – Technology & Robotics

Topics: Programming, Robotics, Renewable Energy, Data Acquisition

Experiments: Build electrical circuits, measure solar cell output, analyze sensor data, and design as well as program robotic systems.

STEM KIT 5 – Engineering & Construction

Topics: Mechanics, Electrical Engineering, Structural Design, Energy Conversion

Experiments: Construct electrical circuits, measure solar energy output, and perform data analysis using sensors.

STEM KIT 6 – Mathematics & Data Analysis

Topics: Geometry, Algebra, Statistics, Modeling

Experiments: Apply mathematical concepts through practical activities such as sensor-based data analysis, solar energy measurements, and robotics programming.



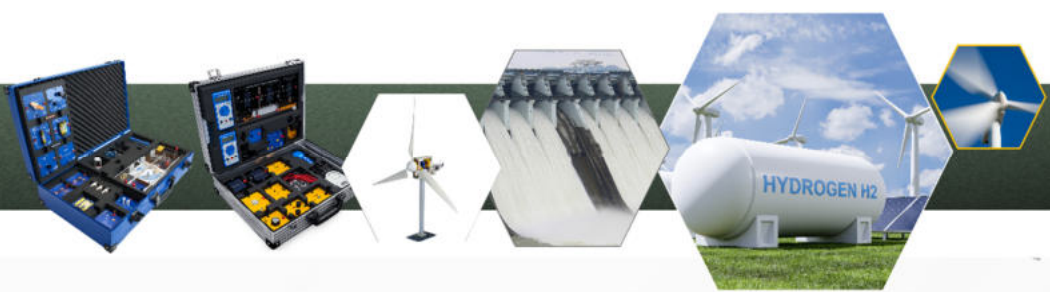
Contact us to receive a quotation.
For more information, please visit our website :

www.dmhamburg.de

sales@dmhamburg.de

Tel.: +49 151 400 45 449 (WhatsApp)





Appendix 2

Renewable Energies

For technical & Vocational Schools

Renewable Energy Training Kits

Comprehensive Hands-On Learning Solutions

Discover a complete range of innovative training kits designed to explore the full spectrum of renewable energy technologies. Each kit combines theory with practical experimentation, enabling learners to develop real-world skills in a structured and engaging way.



KIT 1 – Biofuels

Explore the science behind sustainable fuels. This kit covers biodiesel production, alcoholic fermentation, distillation processes, and the creation of bioethanol and ethanol-based fuels—offering a complete introduction to alternative fuel technologies.



KIT 2 – Bioenergy

Understand energy from biomass. Investigate plant germination, hydroponic growth, and nutrient consumption. Study both aerobic and anaerobic biomass degradation, including composting processes, hydrogen production, and methane generation.



KIT 3 – Electric Mobility

Analyze modern energy storage systems. Examine different battery technologies (lead-acid, NiMH, LiPo) and a PEM hydrogen fuel cell. Measure internal resistance and benefit from integrated charging systems for continuous, hands-on experimentation.



KIT 4 – Energy Efficiency

Measure, analyze, and optimize energy use. Students explore global energy consumption, climate change, and household energy usage. Includes practical measurements of indoor climate, water usage, and energy consumption. Includes 16 experiments.



KIT 5 – Hydrogen Technology (H₂)

Dive into the future of clean energy. Featuring a wind turbine and vehicle chassis, this kit allows exploration of hydrogen production through solar-powered electrolysis. A modular 1 W fuel cell enables flexible experimentation at both system and cell levels.



KIT 6 – Hydropower

From fundamentals to real-world applications. Combine qualitative and quantitative experiments to understand water turbine physics. Includes multiple turbine types—from simple water wheels to advanced Pelton turbines—for realistic learning scenarios.



KIT 7 – Fundamentals of Renewable Energy

Your complete introduction to renewable technologies. With over 20 experiments, this kit covers photovoltaics, wind energy, hydropower, electric mobility, and hydrogen systems. Includes Smart Control components for advanced measurement and system control, along with all required accessories.



KIT 8 – Photovoltaics

Master solar energy systems. From core physical principles to system design, this kit enables in-depth study of PV components and complex installations at laboratory scale. Ideal for training technicians, engineers, and industry professionals. Includes 25 experiments.



KIT 9 – Smart Grid Systems (Includes complete Smart Control system)

Build the energy networks of tomorrow. Create a fully functional smart grid at laboratory scale. Integrates renewable sources such as wind and solar, along with hydrogen fuel cells, energy storage, and electric mobility components.



KIT 10 – Wind Energy

Harness the power of the wind. With over 25 guided experiments, learners gain a solid understanding of wind energy principles. Structured, curriculum-based activities explain how modern wind power plants operate.





Full-Service Solutions made by DMH

End-to-end solutions, designed to last

STRATEGIC CONSULTING

We support you in the design and development of innovative, sustainable, and high-value technical solutions with strong educational impact. Our expertise covers both individual initiatives and large-scale international education programs, always with a tailored approach.

NEEDS ANALYSIS

We precisely identify your challenges and objectives. Every project begins with a thorough understanding of your actual needs to ensure results that are fully aligned with your expectations.

CUSTOM DEVELOPMENT

We design high-performance, scalable solutions tailored to your specific environment. Whether it is a purely educational project or a model integrating self-financing potential, we ensure technical and functional consistency at every stage.

PRESENTATION & VALIDATION

We deliver clear, practical, and ready-to-implement solutions, supported by rigorous evaluation to facilitate confident decision-making.

RELIABLE LOGISTICS

Through our trusted partner network, we ensure secure and efficient delivery of your equipment worldwide.

PREMIUM INSTALLATION & TRAINING

We guarantee proper implementation of your projects, complemented by tailored training for your teams. Our services are available in our training facilities in Germany, in Dubai (United Arab Emirates), and directly on-site following installation and commissioning.

ONGOING SUPPORT & ASSISTANCE

Our commitment extends beyond delivery. Benefit from responsive after-sales service, a hotline available five days a week, and continuous follow-up to ensure the long-term performance of your installations.

Our Promise :

To build with you a strong and lasting partnership, founded on trust, performance, and excellence in service.

Your DMH Team !



Didaktik
Manufaktur
Hamburg



Didaktik Manufaktur Hamburg references

Didaktik Manufaktur Hamburg has been delivering innovative projects worldwide since 2009 as an integral part of the LABNET SYSTEMS Group, headquartered in Dubai, UAE, with successful operations in 29 countries.

What began as specialized consulting for technical and educational subprojects, as well as comprehensive project solutions, has evolved into a full-service project integration offering since 2021.

Today, we combine strategic consulting, technical expertise, and execution capability to deliver end-to-end solutions across various sectors.

The education sector is at the core of our commitment. In this field, we have implemented numerous projects, either acting as a trusted consultant to leading stakeholders or serving as the general contractor responsible for the full execution of projects.

Selected references include:

Africa & Middle East

- Algeria: 22 Technical and Vocational Schools (CFPA), 4 Universities, 2 Training Centers
- Saudi Arabia: 43 Secondary Schools, 29 Primary Schools, 7 Technical & Vocational Schools, 3 Universities
- United Arab Emirates: 3 Technical & Vocational Schools, 14 Secondary Schools, 2 Universities
- Oman: 11 Technical & Vocational Schools, 9 Secondary Schools
- Egypt: 3 Universities, 1 Training Center
- Mauritania: 1 University, 1 Training Center, 8 Secondary Schools
- Chad: 4 Universities, 6 Technical & Vocational Schools, 1 Training Center
- Gabon: 4 Technical & Vocational Schools, 1 University
- Mozambique: 5 Technical & Vocational Schools, 1 University
- Libya: 17 Secondary Schools, 1 University

Asia & Central Asia

- India: 27 Technical & Vocational Schools, 2 Universities
- Kazakhstan: 26 Secondary Schools, 7 Technical & Vocational Schools
- Turkmenistan: 5 Technical & Vocational Schools, 1 Training Center
- Uzbekistan: 3 Technical & Vocational Schools, 5 Secondary Schools, 11 Primary Schools
- Azerbaijan: 4 Technical & Vocational Schools

Europe

- Poland: 14 Secondary Schools, 3 Technical & Vocational Schools
- Austria: 2 Technical & Vocational Schools, 7 Secondary Schools
- Ukraine: 4 Technical & Vocational Schools, 3 Secondary Schools
- Romania: 4 Technical & Vocational Schools, 2 Secondary Schools

..and 10 other countries with at least 1 realized project.

DMH works with multiple partners and maintains representations in the following countries:

- ➔ LABNET Systems Group – Dubai / V.A.E.
- ➔ DMH Algeria– Bab Ezzouar, Algiers / Algeria
- ➔ DMH RDC – Kinshasa-Limete, Kinshasa / Democratic Republic of Congo
- ➔ DMH Tanzania – Dar-es-Salam / Tanzania
- ➔ DMH Chad – Ndjamena / Chad
- ➔ DMH Ukraine – Chmelnyzkyj Oblast / Ukraine

Digital Park – Dubai
LABNET Systems Group offices



Didaktik Manufaktur Hamburg Program for Technical & Vocational Training

