



**Handwerkskammer  
Südthüringen**

# **Vocational Training and Technology Centre Rohr-Kloster**

Professional training institute of the Chamber of Crafts of South Thuringia



**Leidenschaft  
ist das beste  
Werkzeug.**

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## Vocational Training and Technology Centre Rohr-Kloster

The Rohr-Kloster Vocational Training and Technology Centre (Berufsbildungs- und Technologiezentrum (BTZ)) is one of the most advanced and most innovative vocational training centres for professional trades in Germany.

Equipped with state-of-the-art workshops and training classrooms, BTZ is an educational establishment affiliated to the South Thuringia Chamber of Trade providing numerous opportunities for practice-oriented training and advanced training in a variety of trades.

BTZ Rohr-Kloster is certified by the German Association for Research and Certification of Quality Assurance Systems in Vocational Training (CERTQUA). As well as an approved DVS-training centre, the complex also includes a Competence Centre for Metals and Manufacturing Technology and a SATA Competence Centre offering the latest painting technologies.

## About us

The Rohr-Kloster Vocational Training and Technology Centre was established in 1990 as an industry-wide vocational training centre. As well as the specialised workshops, Rohr-Kloster BTZ facilities also include a residential school, a canteen and a training centre, advisory centre and leisure centre.

Several years of experience allows us to share our knowledge in a practical and future-oriented manner. We offer qualifications at various levels including initial training in technical professions, further training and advanced further training.

## Business areas

- Industry-wide course instruction
- Master craftsman training
- Vocational further training
- Advanced further training
- Career guidance
- Educational and project management
- Special courses
- Innovative consultancy for companies
- Supplementary training courses

## Specialist areas

We also provide business-related and technology-oriented training workshops for exclusive specialist areas.

### Specialist fields provided by Rohr-Klosters BTZ:

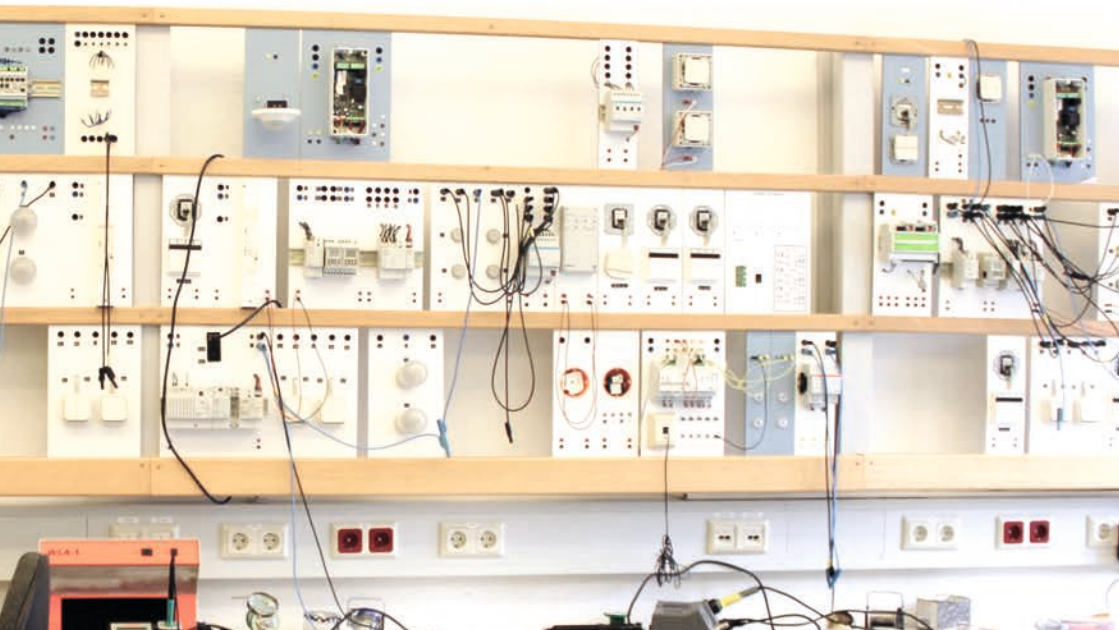
- Electrical engineering
- Vehicle technology
- Paint / Wood / Structural engineering
- Hairdressing / Cosmetics
- Food industry
- Metals and manufacturing technology
- Practical experience centre for energy efficiency
- Sanitation-, heating- and air-conditioning technology
- Welding technology training centre

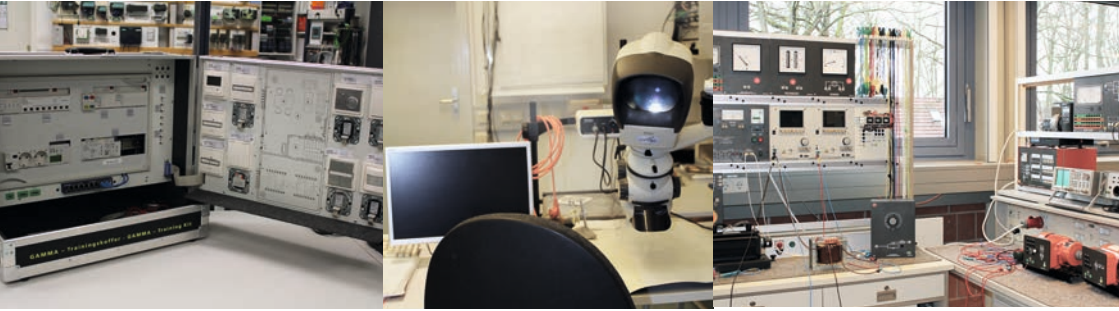
# Electrical Engineering

The specialist field of electrical engineering offers training and advanced training possibilities in the areas:

- Installation technology
- Automation technology
- Communications technology
- Building control systems
- Information technology

All participants will complete their training in state-of-the-art specialised workshops under the supervision of competent, professional instructors





## Training services

### Industry-wide course instruction:

- Electrical engineers for energy- and building technology

### Master craftsman training:

- Electrical engineers for energy- and building technology

### Special modular tutelage:

- Post-qualification for industrial electricians
- Post-qualification for installation practitioners
- Specialist field of electrical engineering
- Retraining for industrial electricians

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## Advanced training courses

- PLC controls
- Skilled electricians for specialist jobs
- Competent persons for the inspection of potentially explosive plants and equipment in accordance with §§ 14 (1-3) and §§ 15 (15) BetrSichV and TRBS
- RETIE-course  
(Technical Regulations for Electrical Installation with expert assessment for notification regarding electrical systems for the supply network operator)
- Thermography on electrical systems
- Building systems technology combined course of KNX project planning and commissioning in accordance with directives of the KNX-Association, Brussels, or alternatively the KNX-test
- Electrically trained persons pursuant to BGV A3
- Testing of fixed installations and testing of portable equipment



# Vehicle Technology

Approved by the German Federation for Motor Trade and Repairs, our training workshop is fully equipped for the specialist field of vehicle technology, comprising a complete range of services for vehicle diagnostics and vehicle repair. Training is conducted using state-of-the-art technology and covers the following areas:

- Motormanagement
- Injection systems for state-of-the-art Otto engines and diesel engines
- Exhaust gas diagnostics
- Chassis systems, wheel alignment, data bus-connected systems
- Energy management
- Motor mechanic, brake-, wheel- and tyre technology
- Electronic systems, vehicle electronics
- Convenience- and safety electronics
- Air-conditioning-, airbag- and high-voltage courses
- Car body technology

## Certified training centres

The specialist field of vehicle technology is a certified training centre for exhaust emissions testing (AU), safety tests (SP), gas training courses (GAP and GSP) and high-voltage training courses (HV ), as well as airbag and air-conditioning technology.



## Training services

### Industry-wide course instruction:

- Motor vehicle mechatronics technician
- Motor vehicle body and vehicle construction mechanic
- Mechanic for agricultural and construction machinery technology

### Master craftsman training:

- Motor vehicle technician
- Bicycle mechanic
- Agricultural machinery mechanic
- Motor vehicle body and vehicle construction mechanic



State-of-the-art technical equipment is provided for this specialist field.

## Advanced training courses

- Motor vehicle service technician
- Seminars on motor management, chassis, data bus
- Exhaust emissions testing course\*
- Safety test course\*
- Air-conditioning training course\*
- Airbag training course\*
- High-voltage training course\*
- Gas training course\*

\*These training courses are conducted in correlation with the Technical Academy of the German Federation for Motor Trade and Repairs.



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# Paint



Professional mentoring in the specialist field of paint provides expert knowledge of skilled manual competence and technologies in the following areas:

- Surface finishing and repair
- Treatment, inspection and appraisal of substrates
- Interior design and facade design
- Inscriptions and design
- Painting technicians and coatings

## Training services

### Industry-wide course instruction:

- Painters and varnishers
- Painters and decorators / Car bodywork painters
- Painters of exterior structures
- Vehicle sprayers
- Process mechanics for coating technology

### Master craftsman training:

- Maler und Lackierer
- Fahrzeuglackierer



The SATA Competence Centre at Rohr- Kloster BTZ was opened in 2014 in cooperation with the SATA company. It provides training and further training possibilities for trainees, time-served professionals and master craftsmen from the trade and industry sectors using state-of-the-art painting technologies.

## Advanced training courses

- Gilding techniques
- Wood painting / Wood imitation
- Spatula techniques
- Historical techniques in the painting craft
- Creative wall design
- Airbrushing
- Refinishing of car bodywork sections

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# Wood



In the specialist field of wood, we teach both traditional and modern techniques for the processing and machining of wood which can then be practised in our specially equipped workshops.

## Training services

### Industry-wide course instruction:

- Cabinet makers
- Carpenters

### Master craftsman training:

- Cabinet makers
- Carpenters

## Advanced training courses

- Roof structures
- Timber frame constructions
- Formwork
- Dry lining

# Structural Engineering

Theoretical and practical proficiencies applying traditional, as well as the latest construction techniques are taught for the specialist field of structural engineering in our specially equipped workshops under the supervision of competent experts.

## Training services

### Industry-wide course instruction:

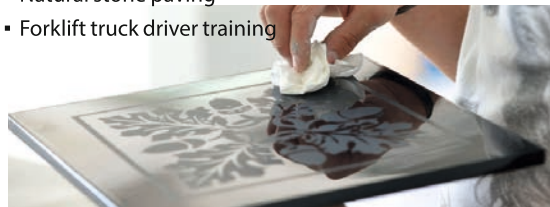
- Bricklayers
- Concrete workers
- Tilers

### Master craftsman training::

- Bricklayers
- Concrete workers
- Tilers

## Advanced training courses

- Traditional plastering and masonry techniques
- Clay construction
- Natural stone paving
- Forklift truck driver training



# Hairdressing / Cosmetics

The specialist field of hairdressing and cosmetics is taught in modernly-equipped, specialised workshops under the instruction of competent instructors providing practical experience in all aspects of:

- Hair design and colouring
- Haircutting techniques
- Hair extensions and hair thickening
- Rolling, waving and other techniques
- Advising customers regarding haircut and hairstyle
- Care cosmetics
- Manicures and other cosmetic services
- Make-up artistry
- Health protection measures





## Training services

### Industry-wide course instruction:

- Hairdresser
- Beautician

### Master craftsman training:

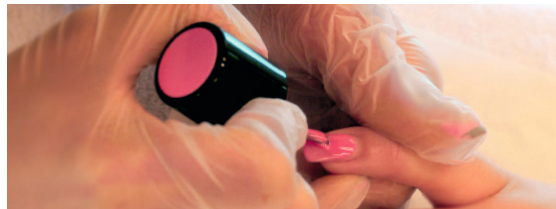
- Friseur
- Kosmetik

### Special modular tutelage:

- Post-qualification as hairdresser and beautician with certificate in a recognised profession
- Modular training as hairdresser and beautician
- Reintegration into the profession

## Advanced training courses

- Nail design/Nail modelling
- Cosmetic foot care
- Permanent make-up
- Wellness
- Make-up artistry
- Colour design
- In-trend hairstyles - Unisex
- Updos/Bridal hairstyles
- Hair extensions/Hair thickening



Nail care, nail design

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# Food Industry

The specialist field of the food trade comprises bakeries, butchers and the sales sector. Practical and theoretical training covering various topics is conducted in state-of-the-art workshops featuring extremely high-tech equipment.

## Training services

### Specialist salesperson in the foodstuffs trade

- Consultation and sales
- Presentation of goods
- Food production
- Arrangement and garnishing
- Quality control
- Stocktaking

### Butcher

- Disjointing of carcasses
- Production of processed meats, sausages and preserves
- Preservation of meat and meat products
- Preparation of meals, salads and cold dishes
- Assessment and evaluation of meats

### Baker

- Production of various bread types and pastries
- Production and processing of special mixtures, casings, fillings and creams
- Producing cakes and desserts

### Confectioner

- Production of confectionary products
- Processing of doughs
- Garnishing and modelling of additions
- Packaging and presentation of products



Optimum preparation for a master craftsman's certification and outstanding vocational prospects are guaranteed with experienced training staff, state-of-the-art equipment and quality-oriented training courses.

#### Master craftsman training:

- Baker
- Confectioner
- Butcher

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### Sales manager in the foodstuffs trade

An extensive knowledge of the bakery and butcher sectors is required for branch management nowadays in order to maintain an independent and competent business.

Sales managers in the foodstuffs trade organise and oversee the sales in large-size bakery, confectionary and butcher establishments. They instruct the employees, monitor the working procedures and are

responsible for goods in stock and deliveries. As well as specialist knowledge, this position also requires managerial responsibility and management proficiency.

As sales manager, you assume responsibility for smooth running of all operational processes, thus guaranteeing success of your business.



# Metals and Manufacturing Technology

The specialist field of metals and manufacturing technology involves a wide range of services within the areas of CNC/CAD and CAM systems, 3D-data acquisition, as well as eroding and laser machining, plastics manufacturing technologies and Rapid Prototyping.

In this regard, our state-of-the-art machinery ensures maximum attainment of the latest scientific and technical standards, guarantees utmost quality in the implementation of practical assignments, maximum flexibility and swift adaptation to market requirements.

## KOMZET Metals and Manufacturing Technology

The Competence Centre provides information, consultation, training, collaborations and project solutions for companies with the motto:

***Our Competence – Your Competitive Edge***

You provide the challenge ....

- We find the solution
- We acquire the appropriate technology
- We qualify your employees
- We attend to you personally







## Training services

### Industry-wide course instruction:

- Precision mechanic
- Metalworker

### Master craftsman training:

- Precision mechanic
- Metalworker (with welding specialist)
- Gunsmith

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## Advanced training courses

- Basic principles of machining and processing metals
- Conventional machine courses
- High-grade steel workshops
- Forging courses / Metal design
- Certificate of competence in fastening technology
- Skilled electricians for specialist jobs
- CAD- and CNC- basic course and advanced training course
- CAD- and CNC specialist courses
- MasterCAM turning/milling/wires
- Laser sintering, -cutting, -inscribing,-welding
- Component digitalisation
- Reverse engineering
- Rapid Prototyping
- Measuring technology
- Material testing
- Plastics technology
- Individual training courses for programming, including travelling out to the trainees place of work



## Practical Experience Centre for Energy Efficiency with „expo Energy-Focused Building Renovations“

### **Building renovations you can touch Offer**

Six models have been constructed within the practical experience centre for energy-focused building renovations in the Rohr-Kloster Vocational Training and Technology Centre for the purpose of training and advanced training in energy and air-conditioning technologies. The model houses allow a direct comparison between incorrect and correct execution of construction work. Solutions for more than two hundred specifics are highlighted from the cellar to the roof. A lecture hall and a multifunction room accommodating a total of 80 theory seats facilitate the mediation of theoretical knowledge. Floor space of the demonstration and testing halls totals 225 m<sup>2</sup> respectively.

The practical experience centre offers the most diverse courses, workshops and vocational qualifications on numerous topics, as well as in areas of structural and energy-focused renovations of efficient house and building technology.

### **House builder's open day**

A house builder's open day takes place in the practical experience centre for energy-focused building renovations on the first Sunday of every month from 9 o'clock to midday. An independent energy adviser is on-hand to answer any queries.



## Complex mediation of knowledge

- Air-tight sealing, windproofing
- Thermal bridges
- Implementation of interior insulation
- Blower door measuring
- Protecting against condensation and mildew
- Professional demonstration of interrelating with other trades
- Sound insulation and fire protection
- Optimisation of heating systems
- Certification of construction supervisors
- Safety at work on the building site

## Comprehensive trades

Numerous interfaces for the trades highlight exemplary solutions and specifics for:

- Thermal protection
- Ecological refurbishment
- Utilisation of renewable energies
- Energy-saving technologies
- Room air-conditioning
- Healthy living environments



direct comparison between incorrect and correct execution of construction work



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# Sanitation-, Heating- and Air-Conditioning Technology

The specialist field of SHK covers the entire range of services for supply technology in state-of-the-art equipped specialised workshops:

- Assembly technicians / Installation systems for gas / water / heating / ventilation / air-conditioning
- Heat generator
- Control technology
- Regenerative energies
- Energy-saving technologies
- System evaluation
- Optimisation of systems



We offer seminars on basic principles, individual and certified training courses, consultations and expert assessments.

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## Training services

**Industry-wide course instruction:**

- System mechanic for sanitation-, heating- and air-conditioning technology
- Plumber

**Master craftsman training:**

- Installation and heating technician
- Plumber

## Advanced training courses

- Expertise training for operations on air-conditioning and heating pump systems
- Certificate of competence in fastening technology
- Skilled electricians for specialist jobs
- Oil and gas burner training courses
- Training courses for service technicians
- Technical regulations for gas installation
- Technical regulations for water installation
- Optimisation of heating systems
- Application of regenerative energies and development of heat sources
- Industry software training courses
- Safety measures for civil engineering works in accordance with DVGW GW 129
- Training courses for network fitters and network engineers
- Firefighting training courses



# Training Facilities for Gas Fires and Gas Explosions

These facilities serve to provide demonstrations of natural gas and liquid gas fires. Training course participants experience first hand the devastating effects of gas explosions and are made aware of safety-relevant areas.

The following simulations can be enacted with these facilities:

- Natural gas and liquid gas fire simulations under low, intermediate and high pressure
- Demonstration of the process of a fire on a PE-pipe (polyethylene)
- Effect of gas escaping from a steel pipe in a bed of gravel
- Highlighting the danger of reignitions
- Ignition of a minimal amount of leakage
- Ignition of gas-air mixtures at ignition sources of various heights
- Discharge of gas from underground supply lines
- Introduction of bubbles to cut off the gas supply
- Effect of natural gas and liquid gas explosions

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# Welding Technology Training Centres

In our welding technology training centres, we offer courses, as well as training and further training possibilities for the various welding techniques:

- Metal-arc Inert Gas Welding (MIG / MAG)
- Tungsten Inert Gas Welding (TIG)
- Manual Metal Arc Welding (MMA)
- Gas welding

## Training services

### Industry-wide course instruction:

Welding courses for:

- Metalworkers
- System mechanic for sanitation-, heating- and air-conditioning technology (SHK)
- Plumbers
- Construction mechanics
- Mechanics for agricultural and construction machinery technology
- Bodywork and vehicle construction mechanics
- Bicycle mechanics
- Precision mechanics

## Certified training centre

The training centre of the South Thuringia Chamber of Trade is a training facility type BE 2 / PS 2 which has been approved by the German Association for Welding and Allied Processes (DVS), pursuant to DVS-PersZert® and thus complies with all personnel, equipment-related and spatial conditions for the conducting of qualitative and quantitative first-class training.





## Advanced training courses

- In accordance with the German Association for Welding, Cutting and Allied Processes Directive, and in compliance with European and International Directives ( EWF, IiW in MIG-, MAG-, MMA- welding and in gas welding)
- Implementation of initial testing and repeat testing in accordance with EN 287-1, ISO 9606-1, ISO 9606-2 or DGR 97/23/EG, AD 2000 HP3 with examination and issue of the inspection documents/certificates
- Hard-soldering of galvanised pipes, copper and aluminium
- MIG-pulsed arc soldering on galvanised sheet metal plates
- Welding operator qualification test in accordance with DIN EN ISO 14732 for spot-, projection- and stud welding
- Flame cutting, laser cutting and welding
- Reinforcing bar welding E and MAG
- Visual inspection course  
VT1 + VT2
- Dye penetrant test course  
PT1 + PT2
- Magnetic powder test course  
MT1 + MT2
- International welding specialist

## Services of the training centre

- Certification of WPK in accordance with EN 1090 EXC1 – EXC3 with welding certificate
- Certification in accordance with EN ISO 3834-2 to 4
- Ultrasonic testing, dye penetrant test, visual inspection of weld seams and components, magnetic powder test and visual inspection with certified inspectors, including travelling to the respective companies
- Radiographic examination of weld samples for welder's qualification tests
- Radiographic examination of technical components, e.g. steel- forged- and cast parts

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**DAS HANDBWERK**  
DIE WIRTSCHAFTSMACHT. VON NEBENAN.