



TECHNICAL
TRAINING ACADEMY

Maintenance Training Specialists



Course Brochure 2026

www.technicaltrainingacademy.co.uk

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TECHNICAL

TRAINING ACADEMY

Maintenance Training Specialists

About Us

At the Technical Training Academy, we specialise in practical, maintenance-focused training that strengthens technician capability, reduces downtime, and builds a more multi-skilled workforce.

Maintenance Expertise

Training delivered by experienced maintenance professionals who understand real plant conditions and equipment challenges.

Value-Focused Outcomes

Courses designed to cut downtime, reduce contractor reliance, and improve first-time fix rates.

Targeted Maintenance Training

Electrical, mechanical, fault-finding, machining, safety, and reliability training built specifically for maintenance roles.

Flexible Delivery

Training delivered on-site or off-site, using your equipment or ours, ensuring immediate workplace relevance.

Hands-On Learning

Every course is practical and task-driven, giving maintainers skills they can apply immediately.

Strengthen your maintenance capability and reduce operational costs with the Technical Training Academy



Safety Compliance



Safety In The Use Of Abrasive Wheels

Course Overview

This training equips personnel with the knowledge and practical ability to select, mount, and operate abrasive wheels safely. It aligns with PUWER standards and reflects current HSE guidance to promote safe, compliant working practices.

Participants develop both theoretical insight and hands-on competence in the correct use and management of abrasive wheels. On completion, they'll be able to recognise hazards, minimise risks, and apply effective safety procedures within maintenance environments.

Why

Supports maintainers in the safe mounting and operation of abrasive wheels, ensuring full PUWER compliance while helping prevent injuries, equipment faults, and unnecessary downtime resulting from incorrect wheel handling.

Follow-on

Strongly advised every 3 years.

Course Contents

- Introduction
- Wheel types and key characteristics
- Core safety principles
- The grinding machine and its components
- Correct procedures for mounting wheels
- Guarding requirements and functions
- Safe use of portable and hand-held grinding equipment
- Operating abrasive wheels in practice
- Required personal protective equipment

Details

Course code: SC110

No prerequisites

Duration: ½ Day

Price: See price list

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk



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Maintenance Training Specialists

Ladder & Step-Ladder Safety for Maintenance Access

Details

Course code: SC120

No prerequisites

Duration: ½ Day

Price: See price list

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk

This course provides clear, practical guidance on the safe use of ladders and stepladders in maintenance environments. It supports compliance with the Work at Height Regulations 2005 (WAHR) and helps delegates recognise risks, apply best practice, and prevent fall-related incidents.

Through focused theory and practical instruction, participants gain the confidence to select, position, and use ladders safely while maintaining a controlled working environment.

Why

Ensures safe access during maintenance tasks, reducing fall-related incidents and avoiding the financial impact of lost-time accidents. Supports PUWER compliance.

Follow-on

Strongly advised every 3 years.

Course Contents

- Introduction
- When a ladder is the most suitable piece of equipment
- Who can use a ladder at work
- Pre-use checks and condition
- Using a ladder safely
- Options for securing ladders
- Ladders used for access



Safe Use of Pillar Drills for Maintenance Operations

Details

Course code: SC220

No prerequisites

Duration: ½ Day

Price: See price list

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk

This course provides practical training on the safe operation of bench, pillar, and radial arm drills. Delegates learn risk assessment, correct setup, and safe drilling techniques to prevent accidents and equipment damage.

Aligned with PUWER and workshop safety standards, it combines focused theory with hands-on practice to build confidence in safe, compliant machine use.

Participants finish with a clear understanding of drill types, tooling, speeds and feeds, and the full process from setup to shutdown.

Why

Ensures safe and compliant use of pillar drills, reducing the likelihood of accidents and tool damage.

Follow-on

Recommended every 3–5 years.

Course Contents

- Drilling process
- Machine types
- Selection of drilling machines
- Types of tooling
- Speeds & feeds
- Setting up for drilling
- Machine Operation
- Pre-use checks
- Post-drilling operations



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Band Saw Safety for Maintenance and Repair Work

Details

Course code: SC230

No prerequisites

Duration: ½ Day

Price: See price list

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk

This course delivers practical, competency-focused training on the safe use of vertical and horizontal band saws. Delegates learn correct machine setup, blade selection for different materials, and safe cutting techniques that prevent accidents, blade failures, and equipment damage.

Emphasising PUWER compliance, correct guarding, and hazard awareness, the course builds confidence in safe, efficient band-saw operation within maintenance and repair environments.

Why

Helps maintainers operate band saws safely, preventing blade failures, injuries, and costly machine downtime. Supports PUWER compliance.

Follow-on

Recommended every 3–5 years.

Course Contents

- Guarding
- Blade Selection
- Machine Setup
- Safe Operating Techniques
- Identifying Abnormal Behaviour
- Workpiece Support
- Safety Devices
- Cleaning & Maintenance



Details

Course code: SC250

No prerequisites

Duration: ½ Day

Price: See price list

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk

Using Lifting Equipment for Maintenance Tasks

This course provides practical guidance on selecting and using lifting and handling aids to reduce the risk of back injuries and other musculoskeletal disorders.

Delegates learn how mechanical and non-mechanical aids can reduce manual handling demands, improve productivity, and support compliance with health and safety requirements.

Using real case studies, the course highlights effective solutions and common pitfalls, helping organisations choose suitable equipment and implement safer working practices.

Why

Ensures safe use of lifting equipment, reducing load-handling incidents and preventing costly damage to machinery and components.

Follow-on

Recommended every 3–5 years.

Course Contents

- Back Injury Risks and Prevention
- Consequences of Poor Manual Handling
- Types of Lifting and Handling Aids
- Mechanical and Non-Mechanical Handling Solutions
- Case Studies
- Practical Applications
- Selecting Suitable Lifting and Handling Aids
- Environmental and Operational Considerations
- Training, Information, and Support
- Sources of Further Guidance



Safe Use of Hand-Operated Power Tools for Maintainers

Details

Course code: SC270

No prerequisites

Duration: ½ Day

Price: See price list

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk

This course provides practical training on the safe selection, setup, and operation of hand-operated power tools. Delegates learn hazard identification, legal requirements, and correct handling techniques to prevent injury and equipment damage.

Covering drills, grinders, sanders, saws, and other portable tools, the course builds confidence in safe tool use in line with PUWER, COSHH, and vibration-control regulations.

Why

Reduces the risk of misuse, tool damage, and injury, helping avoid downtime and replacement costs.

Follow-on

Recommended every 3–5 years.

Course Contents

- Legal Duties and Compliance
- Tool Types and Associated Hazards
- Pre-Use Checks and Setup
- Safe Operating Techniques
- Control Measures and Risk Reduction
- Dust, Noise, and Vibration Management
- Post-Use Procedures



Circular Saw Safety for Maintenance Applications

Details

Course code: SC310

No prerequisites

Duration: ½ Day

Price: See price list

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk

This course provides practical training on the safe setup and operation of circular saws and circular saw benches in line with HSE guidance (WIS16). Delegates learn machine standards, guarding requirements, and safe cutting techniques to prevent kickback, blade contact, and other common hazards.

The course covers riving-knife adjustment, push-stick use, braking systems, and dust-control measures, ensuring operators work safely, confidently, and in compliance with PUWER and relevant British Standards.

Why

Ensures safe operation of circular saws, reducing blade failures, material waste, and accident-related costs.

Follow-on

Recommended every 3–5 years.

Course Contents

- Machine Standards and Legal Requirements
- Guarding Systems – Top Guard and Riving Knife
- Safe Cutting Techniques – Ripping, Cross-Cutting, Angled Cutting
- Kickback Prevention
- Push-Stick Use and Hand Positioning
- Braking Requirements and Run-Down Times
- Dust Control and Local Exhaust Ventilation (LEV)
- Workpiece Support and Operator Positioning



Sanding Equipment Safety for Maintenance Work

Details

Course code: SC320

No prerequisites

Duration: ½ Day

Price: See price list

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk

This course provides practical training on the safe use of sanding equipment and the control of wood-dust exposure in line with COSHH. Delegates learn key health risks, effective dust-control methods, and safe operation of fixed sanding machines such as belt, disc, and drum sanders.

Why

Reduces dust-related hazards and equipment misuse improving tool life.

Follow-on

Recommended every 3–5 years.

Course Contents

- COSHH – Legal Framework and Principles of Good Practice
- Hazards of Sanding, Planing, and Wood Dust
- Safe Access, Equipment Checks, and Dust-Control Measures
- Respiratory Protective Equipment (RPE)
- Personal Protective Equipment (PPE) and Decontamination
- Maintenance, Examination, and Testing
- Health Surveillance
- Training and Supervision Requirements
- Cleaning and Housekeeping
- Fixed Sanding Machines
- Horizontal Belt Sanders (Large & Small)
- Vertical Belt Sanders
- Disc Sanders
- Drum / Bobbin Sanders



Safety & Skills Assessments

Our comprehensive safety and skills assessments enable employers to identify training needs and validate the competence of both existing and prospective staff. This process is crucial in maintaining a safe workplace and ensuring that personnel are fully equipped to operate essential workshop and processing equipment.

Why

Provides a benchmark of current competence, identifying skill gaps early so issues can be corrected before they cause accidents or downtime.

Follow-on

Recommended every 3–5 years.

Assessment coverage in the following subjects

- Mechanical Maintenance
- Electrical Maintenance
- Fluid Power
- PLCs
- Robotics
- Machineing
- Power and Hand Tools

Customized assessment packages are also available to tailor the evaluation to your specific operational requirements.

Details

Course code: SA140

No prerequisites

Duration: 1 Day

Price: See price list

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk



Safety General



Manual Handling for Maintenance Operations

Details

Course code: SG130

No prerequisites

Duration: ½ Day

Price: See pricelist

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk

This course provides essential training on safe manual-handling techniques in line with the Manual Handling Operations Regulations 1992 and HSE Guidance (L23). Delegates learn how to assess risks, apply correct lifting methods, and use best-practice techniques to reduce injury and improve workplace efficiency.

Combining core principles with practical instruction, the course equips participants to handle loads safely and confidently during maintenance operations.

Why

Reduces strain injuries and protects staff from lost-time incidents, lowering sickness costs and improving productivity.

Follow-on

Recommended every 3–5 years.

Course Contents

- PART 1 Manual Handling Operations Regulations 1992: Legal duties
- PART 2 Carrying out a manual handling risk assessment
- PART 3 Assessing and reducing manual handling risks
- PART 4 Mechanical assistance and good handling technique



Compressed Air Safety for Maintenance Technicians

Details

Course code: SG210

No prerequisites

Duration: 1 Day

Price: See pricelist

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk

This course provides essential guidance on the safe use of compressed-air systems in line with HSG39, covering key hazards, required precautions, and safe operation of compressors, air receivers, dryers, and pneumatic equipment, along with core duties for inspection, maintenance, and compliance with the Pressure Systems Regulations.

Why

Prevents misuse of compressed-air systems, reducing the risk of serious injury and avoiding damage to sensitive components.

Follow-on

Recommended every 3–5 years.

Course Contents

- Introduction to Compressed Air Safety
- Compressor Plant – Types, Hazards & Precautions
- Air Receivers – Statutory Requirements & Safe Operation
- Coolers & Air Dryers – Design & Protection
- Installation of Compressors
- Main Line Systems & Pipework
- Portable Pneumatic Equipment
- Pneumatic Machinery & Actuators
- Interlocking Methods & Circuit Design
- Inspection & Maintenance Procedures
- Training & Competence Requirements
- Legal Duties & British Standards



Slip & Trip Prevention During Maintenance Activities

Details

Course code: SG260

No prerequisites

Duration: 1 Day

Price: See pricelist

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk

This course provides practical guidance on identifying, assessing, and controlling slip and trip risks in line with INDG225. Delegates learn common causes, employer and employee responsibilities, and simple, low-cost measures that significantly reduce accidents. It also covers risk assessment, cleaning methods, flooring and footwear considerations, and organisational factors affecting safe movement during maintenance work.

Why

Reduces common workplace accidents that lead to downtime, compensation claims, and reduced workforce availability.

Follow-on

Recommended every 3–5 years.

Course Contents

- Legal Duties & Responsibilities
- Slip and Trip Risk Assessment
- Managing Health & Safety
- Preventing Floor Contamination
- Effective Cleaning Methods
- Flooring, Lighting & Work Environment
- Footwear Selection & PPE
- Human & Organisational Factors
- Employee Responsibilities
- Tools & Resources (Checklists, Mapping Tools)
- Further Information & Guidance



Display Screen Equipment (DSE) Used For Maintenance Tasks

Details

Course code: SG290

No prerequisites

Duration: ½ Day

Price: See pricelist

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk

This course covers safe screen use in line with the Display Screen Equipment Regulations, teaching delegates how to assess workstations, reduce risks, and apply core ergonomic principles such as posture, setup, breaks, and eye care, along with key responsibilities for managing DSE in maintenance tasks.

Why

Helps maintainers work safely at screens during diagnostics and planning tasks, reducing fatigue-related errors and improving efficiency.

Follow-on

Recommended every 3–5 years.

Course Contents

- Legal Duties & Definitions
- DSE Health Risks
- Consulting Employees on DSE
- DSE Risk Assessment
- Workstation Setup & Ergonomics
- Keyboard, Mouse & Screen Use
- Managing Glare, Reflections & Lighting
- Breaks, Activity Changes & Fatigue Prevention
- Portable Device Use
- DSE User Training Requirements
- Eye Tests & Spectacles for DSE Work
- Reviewing DSE Assessments
- Using & Training DSE Assessors
- Further Information & Guidance



Maintenance Courses

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Details

Course code: AM110

No prerequisites

Duration: 3 Days

Price: See pricelist

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk

Introduction to Electronic Systems

This course gives engineers a clear grounding in core electronic principles and components, building the essential knowledge needed to understand, support, and troubleshoot modern electrical systems. It provides the foundation mechanical engineers need to develop multi-skilled capability.

Why

Enables mechanical engineers to gain essential electrical understanding, reducing reliance on external contractors and lowering wage and call-out costs.

Follow on

Electrical Installation for Maintenance Technicians.

Course Contents

- Safety
- Electronics Tool Kit
- Schematics
- Electrical Supplies
- Ohm's Law
- Power Calculation
- Series & Parallel circuits
- Resistors
- Potentiometers
- Capacitors
- Coils
- Diodes
- Transistors
- Integrated Circuits
- Taking Readings
- Introduction to microcontrollers



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Electrical Installation for Maintenance Technicians

Details

Course code: AM115

No prerequisites

Duration: 4 Days

Price: See pricelist

Get in touch

+ (44) 7477-617-677

info@technicaltrainingacademy.co.uk

This course gives new starters a practical introduction to industrial electrical installation, covering the design, installation, and testing of common distribution circuits through hands-on training. It builds the core skills needed for safe, effective maintenance work and helps develop multi-skilled personnel who reduce reliance on contractors and minimise downtime.

Why

Builds core electrical skills so mechanical engineers can safely support electrical tasks, reducing reliance on specialist labour and cutting maintenance costs.

Follow on

Progress to Industrial Electrical.

Course Contents

- Safety
- Ring circuits
- Radial circuits
- Lighting circuits
- 2-way lighting circuits
- Emergency lighting circuits
- PIR's
- Circuits to specific devices such as water heaters, showers, and cookers
- Working with conduit
- Working with trunking
- Working with cable tray
- Working with SWA cable
- Working with SY cable
- Circuit Design and calculation
- Basic testing and inspection

WOODS-TEC
Engineering Training Solutions



Details

Course code: AM120

No prerequisites

Duration: 4 Days

Price: See pricelist

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk

Industrial Electrical Panels for Maintainers

Industrial Electrical Panels for Maintainers

This course gives engineers a deeper understanding of industrial electrical systems, focusing on panel structure, function, and safe maintenance. It blends core theory with practical insight so delegates can work confidently inside panels, diagnose faults accurately, and support improvements across industrial environments.

Why

Enables maintainers to work safely inside industrial panels, improving fault-finding speed, reducing call-outs, and supporting multi-skilled workforce development. Also suitable for domestic electricians moving into industrial work.

Follow on

NVQ L3 progression.

Course Contents

- Electrical safety
- Typical industrial electrical components
- Interpretation of electrical schematics
- Power and control circuits
- Traditional motor control
- Inverter drive history
- Wiring to an Inverter Drive
- Inverter drive theory (how it works)
- Setting parameters on an inverter drive
- Analogue signals with inverter drives
- Test equipment
- Dead tests
- Fault finding and rectification
- Circuit design



Programmable Logic Controllers for Maintenance Engineers

Details

Course code: AM130

No prerequisites

Duration: 4 Days

Price: See pricelist

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk

This course introduces core PLC principles and practical functions, enabling engineers to maintain systems, diagnose faults, and support automation improvements confidently.

Why

Improves engineers' ability to diagnose PLC faults quickly, reducing downtime and strengthening planned maintenance.

Follow on

NVQ L3 progression.

Course Contents

- History
- Theory of operation
- Connecting the hardware
- Creating a project
- Establishing online connections
- Configuration of hardware
- I/O tagging, monitoring and forcing
- Boolean logic
- Program representation (LAD, FBD)
- Program structure and standards
- Timers and counters
- Wiring to a PLC
- Data blocks
- Data types and parameter types
- Step programming
- Setting up a HMI
- Working with existing programs
- Backing up the system
- Fault finding using software



Robotics for Maintenance & Automation Support

Details

Course code: AM160

No prerequisites

Duration: 4 Days

Price: See pricelist

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk

This course introduces delegates to 6-axis industrial robots and teaches them how to programme robot cells using the teach pendant. It builds the practical skills and confidence needed to operate safely, support automation, and unlock new efficiencies across maintenance and production environments.

Why

Gives engineers the skills to safely interact with industrial robots, reducing external support costs and speeding up fault resolution.

Course Contents

- How Robots Work
- Robot jogging in axis & world mode.
- Programming with joint & Linear Motion
- Running & editing programs
- Tool & Base Calibration
- Creating subroutines
- Dealing with singularities
- Interfacing with other devices using the robot's inputs and outputs.
- Referencing and calibration of the robot



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Maintenance Training Specialists

Mechanical Maintenance Techniques

Details

Course code: AM170

No prerequisites

Duration: 4 Days

Price: See pricelist

Get in touch

+ (44) 7477-617-677

info@technicaltrainingacademy.co.uk

This course gives engineers a clear introduction to common mechanical components and the practical skills needed to dismantle, inspect, and reassemble equipment safely and correctly. It builds the mechanical understanding required to support reliable plant operation and develop multi-skilled capability.

Why

Gives electrical engineers essential mechanical skills, reducing reliance on specialist contractors and lowering overall maintenance costs.

Follow on

NVQ L3 progression.

Course Contents

- Safety
- Dismantling and assembly techniques.
- Gear types and uses.
- Seals & Gaskets.
- Bearing types and uses.
- Removal & refitting of bearings.
- Driveshafts
- Couplings
- Keys and keyways
- Chain drive systems
- Belt drive systems
- Mechanical fixings



Fluid Power Systems for Maintenance Technicians

Details

Course code: AM180

No prerequisites

Duration: 3 Days

Price: See pricelist

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk

This course introduces the core principles of pneumatic and hydraulic systems, giving delegates hands-on experience in reading schematics, building and testing control panels, and diagnosing faults. It develops the practical skills needed to maintain fluid power equipment safely, prevent failures, and keep systems running efficiently.

Why

Enables safe and effective maintenance of hydraulic and pneumatic systems, reducing downtime, preventing leaks and failures, and lowering repair costs.

Follow on

NVQ L3 progression.

Course Contents

- Safety
- How to read pneumatic schematics
- Building pneumatic circuits from a schematic
- Pneumatic components and how they operate
- Maintenance techniques for fluid power systems
- Electro pneumatics
- PLC Taster



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Details

Course code: AM210

No prerequisites

Duration: 4 Days

Price: See pricelist

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk

Electrical Fault-Finding for Maintainers

This course teaches a structured, logical approach to diagnosing electrical faults, helping delegates identify root causes, test circuits safely, and restore equipment quickly. It also builds preventative maintenance skills to reduce repeat issues and improve overall system reliability.

Why

Reduces fault-finding time and unplanned downtime, improving equipment availability and lowering production losses.

Course Contents

- Safety refresher
- Sequence mapping
- Half split technique
- Six-point technique
- Five whys
- Flow charts.
- Preventive maintenance
- Condition based monitoring.
- Fault recording



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Automated Systems

Fault-Finding for Maintainers

Details

Course code: AM220

No prerequisites

Duration: 4 Days

Price: See pricelist

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk

This course teaches a structured approach to diagnosing faults on automated systems, helping delegates restore equipment quickly and apply preventative strategies that reduce repeat issues. It builds the practical skills needed to analyse system performance, predict component wear, and plan maintenance that improves reliability and minimises downtime.

Why

Improves engineers' ability to diagnose automation faults quickly, reducing stoppages and improving OEE.

Course Contents

- Safety refresher
- Sequence mapping
- Half split technique
- Six-point technique
- Five whys
- Flow charts.
- Preventive maintenance
- Condition based monitoring.
- Fault recording



Maintenance Support Skills



Milling Operations for Maintenance Support

This course introduces the essential skills needed to operate milling machines safely and confidently. Delegates learn core setup, tooling, workholding, and machining techniques, enabling them to produce a wider range of components and support maintenance tasks more effectively.

Why

Enables maintainers to produce replacement parts in-house, reducing lead times, avoiding stoppages, and cutting subcontracting costs.

Follow on

WOODS-TEC approved NVQ-style 1-year portfolio.

Course Contents

- Machine controls and operation
- Types of milling cutters
- Basic material types
- Speed and feed calculations
- Tool setting
- Workpiece setting (machine vice, table, angle plate)
- Working from datums
- Blocking up
- Producing steps and slots
- Drilling holes
- Drilling to depth
- Centre drills
- Reaming
- Producing threads tap and die method
- Milling angles

Details

Course code: M120

No prerequisites

Duration: 4 Days

Price: See pricelist

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk



Details

Course code: M130

No prerequisites

Duration: 4 Days

Price: See pricelist

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk

Turning Operations for Maintainers

This course introduces the essential turning skills needed to operate a lathe safely and effectively. Delegates learn core setup, tooling, chuck and centre work, and key turning operations, enabling them to produce a wider range of precision components to support maintenance tasks.

Why

Allows engineers to manufacture shafts, bushes, and custom components in-house, reducing reliance on suppliers and preventing extended downtime.

Follow on

WOODS-TEC approved NVQ-style 1-year portfolio.

Course Contents

- Machine controls and operation
- Types of turning tools
- Speed and feed calculations
- Tool setting
- Working from datums
- Setting work three jaw chuck
- Using the tailstock
- Setting work four jaw chuck
- Turning between centres
- Boring
- Drilling holes
- Drilling to depth
- Centre drills
- Reaming
- Producing threads tap and die method
- Compound slide alignment for producing angles
- Form tools
- Turning steps and shoulders



Surface Grinding for Maintenance Repair Work

This course teaches the essential skills needed to operate surface grinders safely and accurately. Delegates learn machine setup, wheel selection and dressing, effective workholding, and core grinding techniques, supported by full Safety in the Use of Abrasive Wheels compliance training. It equips maintainers to produce precision-ground components and improve in-house repair capability.

Why

Provides precision grinding for bearing seats and critical surfaces, eliminating costly subcontracting and reducing repair turnaround time.

Follow on

WOODS-TEC approved NVQ-style 1-year portfolio.

Course Contents

- Surface grinder safety (Includes "Safety in the use of abrasive wheels" course)
- Machine controls and operation
- Basic material types
- Wheel mounting and dressing
- Workpiece setting (machine vice, table, angle plate)
- Working from datums
- Grinding square
- Producing steps and slots
- Grinding angles
- Form and radius grinding

Details

Course code: M140

No prerequisites

Duration: 4 Days

Price: See pricelist

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk



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CNC Systems for Maintenance Technicians

Provides an intermediate introduction to CNC milling and turning, giving engineers the core principles and hands-on programming skills needed to understand CNC behaviour and work confidently with automated machine tools.

Why

Helps maintainers understand CNC machine behaviour, improving fault diagnosis and reducing operator-related downtime.

Follow on

CNC programming or advanced diagnostics.

Course Contents

- Basics of CNC and its advantages over manual machining
- Applications of CNC in various industries
- Overview of CNC machine types
- Key machine components and structure (bed, spindle, tool changer, axes)
- Introduction to workholding devices
- Common cutting tools
- Tool compensation
- Workpiece coordinate system
- Introduction to programming
- Safe machine operation
- Powering up and homing
- Dry running
- Safe methods for loading and changing tools
- Speeds and feeds
- Basic CNC maintenance and fault-finding techniques

Details

Course code: M160

No prerequisites

Duration: 4 Days

Price: See pricelist

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk

Workshop Courses

www.technicaltrainingacademy.co.uk



Measurement & Engineering Drawing for Maintainers

Ensures engineers can read engineering drawings and verify components accurately using precision measurement tools.

Why

Enables maintainers to create accurate part drawings, cutting errors, rework, and delays.

Follow on

3D Design & Additive Manufacture.

Course Contents

- Working from datums
- Engineer's rule
- Micrometers
- Vernier callipers
- Engineer's combination set
- Slip blocks
- Marking out
- Conversion factors
- Using dial test indicators
- Vernier height gauge
- Using a shadowgraph
- Introduction to BS8888
- Reading engineering drawings
- Drawing projections
- Part drawings
- Assembly drawings
- Line types
- Symbols
- Drawing abbreviations
- Surface finishes
- Dimensioning and tolerances

Details

Course code: W120

No prerequisites

Duration: 1 Day

Price: See pricelist

Get in touch

+(44) 7477-617-677

info@technicaltrainingacademy.co.uk



3D Design & Additive Manufacture for Maintainers

Enables engineers to create CAD models and produce parts using FDM 3D printing, supporting rapid manufacture of functional components for maintenance work.

Why

Allows rapid production of replacement components when parts are obsolete or lead times are high, reducing downtime and external procurement costs.

Course Contents

- Fusion 360 User Interface
- Introduction to different planes
- Sketching
- BS 8888
- Extruding
- Filleting and chamfers
- Patterning and revolving features
- Adding holes & slots
- Mirroring features
- Editing 3D parts and assemblies
- Assigning materials to parts
- Creating 2D drawings from parts and assemblies
- Additive manufacturing method
- Working safely with FDM
- FDM Materials
- Designing a component for FDM production
- Optimal Design
- Reverse Engineering & 3D Scanning
- FDM printer care and maintenance

Details

Course code: W130

No prerequisites

Duration: 4 Days

Price: See pricelist

Get in touch

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TECHNICAL
TRAINING ACADEMY

Maintenance Training Specialists

Lean for Maintenance Improvement

This course introduces the core Lean principles and shows how they apply directly to maintenance activities. Delegates learn how to identify waste, streamline workflows, and use tools such as 5S, Kaizen, and Value Stream Mapping to speed up maintenance tasks and improve reliability. Key Lean metrics like Takt Time, Cycle Time, and OEE are covered to help teams measure and sustain performance gains.

Why

Improves efficiency, reduces wasted motion, and speeds up maintenance tasks — directly reducing breakdown duration and labour cost.

Course Contents

- Introduction to Lean Manufacturing
- The 5 Principles of Lean
- Value and Value Stream Mapping
- Flow and Pull Systems
- Pursuit of Perfection
- Gemba Walks and Continuous improvement
- 5S Workplace Organisation
- Kaizen and Waste Elimination
- Takt Time, Cycle Time, and Lead Time
- Key Performance Indicators (KPI) and OEE
- Process Flow and Mapping
- Standardisation and Visual Management

Details

Course code: W150

No prerequisites

Duration: 3 Days

Price: See pricelist

Get in touch

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info@technicaltrainingacademy.co.uk

Price List

Prices exclude VAT. Minimum 3 delegates. Mileage, accommodation, and other expenses may apply.

Course Title	Course Code	Duration (Days)	Prices from (per person)
Safety Compliance			
Safety In The Use Of Abrasive Wheels	SC110	0.5	£250
Ladder & Step-Ladder Safety for Maintenance Access	SC120	0.5	£250
Safe Use of Pillar Drills for Maintenance Operations	SC220	0.5	£250
Band Saw Safety for Maintenance and Repair Work	SC230	0.5	£250
Using Lifting Equipment for Maintenance Tasks	SC250	0.5	£250
Safe Use of Hand-Operated Power Tools for Maintainers	SC270	0.5	£250
Circular Saw Safety for Maintenance Applications	SC310	0.5	£250
Sanding Equipment Safety for Maintenance Work	SC320	0.5	£250
Safety & Skills Assessment	SA140	1	£250
Safety General			
Manual Handling for Maintenance Operations	SG130	0.5	£250
Compressed Air Safety for Maintenance Technicians	SG210	1	£250
Slip & Trip Prevention During Maintenance Activities	SG260	1	£250
Display Screen Equipment (DSE) Used For Maintenance Tasks	SG290	0.5	£250
Maintenance Courses			
Introduction to Electronic Systems	AM110	3	£750
Electrical Installation for Maintenance Technicians	AM115	4	£999
Industrial Electrical Panels for Maintainers	AM120	4	£999
Programmable Logic Controllers for Maintenance Engineers	AM130	4	£999
Robotics for Maintenance & Automation Support	AM160	4	£999
Mechanical Maintenance Techniques	AM170	4	£999
Fluid Power Systems for Maintenance Technicians	AM180	3	£750
Electrical Fault-Finding for Maintainers	AM210	4	£999
Automated Systems Fault-Finding for Maintainers	AM220	4	£999
Maintenance Support Skills			
Milling Operations for Maintenance Support	M120	4	£999
Turning Operations for Maintenance Support	M130	4	£999
Surface Grinding for Maintenance Repair Work	M140	4	£999
CNC Systems for Maintenance Technicians	M160	4	£999
Workshop Courses			
Measurement & Engineering Drawing for Maintenance Technicians	W120	1	£250
3D Design & Additive Manufacture for Maintenance Applications	W130	4	£999
Lean for Maintenance Improvement	W150	3	£750

How to Book a Course

info@technicaltrainingacademy.co.uk or call **+(44) 7477-617-677**
providing the following details:

- A member of our sales team will then reach out to confirm your booking and arrange a suitable time and date for the training session.



Maintenance Training Specialists

Please visit www.technicaltrainingacademy.co.uk

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