

Technician training

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Brake testing Technology

VS T00000 Technician training

VS T11001 Technician training MBT 2100

(1.5 days at MAHA premises, without accommodation) per person

Content:

- Structure of the floor groups
- Structure of the advertisements: Function diagram of the electronics
- Functional sequence: Measurement principle
- Technology: Operation of the calibration program, calibrate the brake test bench

Objectives:

- Obtain technical information for the device generation

VS T11003 Technician training MBT 2200 LON with PC console

(2 days at MAHA premises, without accommodation) per person

Content:

- Application: Software in theory and practice, Creating measurements, database maintenance
- Technology: Circuit boards, calibration, installation of the foundation, Loading variables, tools

Objectives:

- Technical knowledge for maintenance, repair and installation

VS T11022 Technician training 2250 EUROSYSYSTEM

(3 days at MAHA premises, without accommodation) per person

Content:

- Application: Software in theory and practice, Creating measurements, database maintenance
- Technology: Circuit boards, calibration, installation of the foundation, Loading variables, tools

Objectives:

- Basic technical knowledge for installation, commissioning, service and maintenance

VS T11023 Technician training MBT 4200/7200 LON

(3 days at MAHA premises, without accommodation) per person

Theory:

- Function, measuring principle
- Roller set, mechanics and components (Range spring, proximity switch, |)
- control boards
- LON Manager (configuration variables, firmware update, |)

Practice:

- Installation of the test stand in foundation
- Wiring floor assembly with switch cabinet
- commissioning
- calibration
- Service and maintenance

Objectives:

- Technical knowledge for maintenance, repair and installation

VS T11024 Technician training MBT 4250/7250 EUROSYSYSTEM

(3 days at MAHA premises, without accommodation) per person

Theory:

- Function, measuring principle
- Roller set, mechanics and components (Range spring, proximity switch, |)
- control boards
- LON Manager (configuration variables, firmware update, |)

Practice:

- Installation of the test stand in foundation
- Wiring floor assembly with switch cabinet
- commissioning
- calibration
- Service and maintenance

Objectives:

- Technical knowledge for maintenance, repair and installation of Eurosystem products

VS T11014 Technician training Test engineering update training for experienced technicians

(2 days at MAHA premises, without accommodation) per person

Content:

- Technical information about new products
- Electrics: Construction, connections, function, necessary settings, important electrical conditions for correct operation, circuit board description

- Installation: Foundation, mechanics, hydraulics
- Troubleshooting
- Maintenance plans
- Assembly
- News on additional devices
- Workshop brake technology (Exchange of experiences, troubleshooting, solutions)

Objectives:

- Deepen technical knowledge through basic training. Exchange of experience with other technicians. Getting to know new products.

Requirements:

- Error description / questions by participants in advance upon registration

VS T11025 Routine test training BPS (new guidelines 2011)

(1,5 days at MAHA premises, without accommodation) per person

Content:

Application:

- General guidelines (new directive 2011) according to § 41 German Road Traffic Licensing Regulation
- Legal basis for work safety
- Types
- Structure and function of brake test benches
- Display system
- Metrological properties and records
- Error limits
- Deceleration and braking force
- Physical quantities
- ASA livestream
- Audit

Objectives:

- The participant is "knowledgeable" after successfully completing the course

VS T11012 Technical qualification training Brake tester car/truck Analogue/LON generation

(2 days at MAHA premises, without accommodation) per person

Content:

Application:

- General information about test lane and/or test bench

Technology:

- Calibration of the brake test bench
- Operation of the calibration program

Objectives:

- Basic technical knowledge for maintenance and routine testing

VS T11019 Technician training Conversion brake tester according to 2011 guidelines

(1 day at MAHA premises, without accommodation) per person

Content:

- Installation and wiring
- Installation

VS T11020 Competence training Breaks DIN EN ISO/IEC 17025 Certificate renewal

(1 day at MAHA premises, without accommodation) per person

Certificate renewal, part inspection, brake test bench and ASA livestream

Proof of practical abilities via the routine test

Requirements:

- PC with own access ESZ Calibration-Expert (not testing organisations)
- Dongle technician
- Own test tool (Calibration device car/truck for routine test for MAHA MBT 2xxx and MBT 7xxx)
- Copy of initial certificate upon registration Technical training cars and/or lorries

Content:

- Preparatory measures brake tester
- Handling calibration tool
- Calibration/adjustment brake tester and entries in software and log book
- ASA livestream proof
- Final test theory
- Practical exam (Standard compliant routine testing of a chassis dynamometer)

Objective:

Proof of specialised suitability and extension of the existing routine test guideline certificate for another 2 years of the basic certificate

Performance Measurement Technology

VS T21001 Technician training MSR or LPS 3000 for cars/trucks

(3 days at MAHA premises, without accommodation) per person

Content:

- Measurement principle: Basis of performance measurement
- Application: Software in theory and practice, OBD (onboard diagnostics)
- Technology: Circuit boards, calibration, installation of the foundation, Load variables

Objectives:

- Technical knowledge for maintenance, repair and installation of products

VS T22001 On site technician training MSR or LPS 3000 for cars/trucks

(3 days on site)

Extra charge: 0.89 €/journey kilometre plus VAT
or flight/train ticket + overnight accommodation

Content:

- Measurement principle: Basis of performance measurement
- Application: Software in theory and practice, OBD (onboard diagnostics)
- Technology: Circuit boards, calibration, installation of the foundation, Load variables

Objectives:

- Technical knowledge for maintenance, repair and installation of products

VS T21002 Technician training MSR and LPS or ASM-FPS

(4.5 days at MAHA premises, without accommodation) per person

Content:

- Measurement principle: Basis of performance measurement
- Application: Software in theory and practice, OBD (onboard diagnostics)
- Technology: Circuit boards, calibration, installation of the foundation, Load variables

Objectives:

- Technical knowledge for maintenance, repair and installation of products

VS T22002 On site technician training MSR and LPS or ASM-FPS

(4.5 days on site)

Extra charge: 0.89 €/journey kilometre plus VAT
or flight/train ticket + overnight accommodation

Content:

- Measurement principle: Basis of performance measurement
- Application: Software in theory and practice, OBD (onboard diagnostics)
- Technology: Circuit boards, calibration, installation of the foundation, Load variables

Objectives:

- Technical knowledge for maintenance, repair and installation of products

VS T21003 Technician training MZW

(1 day at MAHA premises, without accommodation) per person

Content:

- Measurement principle: Basis of performance measurement
- Application: Software in theory and practice,
- Technology: Circuit boards, calibration, loading variables

Objectives:

- Technical knowledge for maintenance, repair and installation of products

Prerequisite: own test bench

VS T22003 On site technician training MZW

(1 day on site)

Extra charge: 0.89 €/journey kilometre plus VAT
or flight/train ticket + overnight accommodation

Content:

- Measurement principle: Basis of performance measurement
- Application: Software in theory and practice,
- Technology: Circuit boards, calibration, loading variables

Objectives:

- Technical knowledge for maintenance, repair and installation of products

Prerequisite: own test bench

Emission Measurement Technology

VS T31003 Service centre training MET 6.1/6.2/6.3

(1.5 days at MAHA premises, without accommodation) per person

Content:

- Maintenance / Service
- Devices / Calibration / Adjustment
- Performing updates
- Introduction: General information about the exhaust gas tester
- Application: Software in theory and practice, Conducting customer briefings
- Technology: Components (structure, function, etc.) Calibration, commissioning Basics of network technology

Objectives:

- Passing the final exam, the participant can apply for authorisation as a MAHA service centre
- They are hereby authorised to carry out commissioning, service and repairs for the exhaust gas tester MET 6.1/6.2/6.3

- see service information V-LPS-16.06 from 30.09.16

Service support bases for exhaust gas measuring equipment – concept change

VS T32003 Service centre training on site MET 6.1/6.2/6.3

(1.5 days on site)

Extra charge: 0.89 €/journey kilometre plus VAT
or flight/train ticket + overnight accommodation

Content:

- Maintenance / Service
- Devices / Calibration / Adjustment
- Performing updates
- Introduction: General to the exhaust gas tester
- Application: Software in theory and practice, Conducting customer briefings
- Technology: Components (structure, function, etc.) Calibration, commissioning Basics of network technology

Objectives:

- Passing the final exam, the participant can apply for authorisation as a MAHA service centre
- They are hereby authorised to carry out commissioning, service and repairs for the exhaust gas tester MET 6.1/6.2/6.3

- see service information V-LPS-16.06 from 30.09.16

Service support bases for exhaust gas measuring equipment – concept change

VS T31002 Technician training MGT 5

(1 day at MAHA premises, without accommodation) per person

Content:

- Introduction: General information about the exhaust gas tester
- Application: Software in theory and practice, Conducting customer briefings
- Technology: Components (structure, function, etc.) Adjustment and calibration, commissioning

Objectives:

- The participant can maintain and repair MAHA test and workshop equipment

VS T32002 On site technician training MGT 5

(1 day on site)

Extra charge: 0.89 €/journey kilometre plus VAT
or flight/train ticket + overnight accommodation

Content:

- Introduction: General information about the exhaust gas tester
- Application: Software in theory and practice, Conducting customer briefings
- Technology: Components (structure, function, etc.) Adjustment and calibration, commissioning

Objectives:

- The participant can maintain and repair MAHA test and workshop equipment

VS T31001 Technician training MDO2 LON

(1 day at MAHA premises, without accommodation) per person

Content:

- Introduction: General information about the exhaust gas tester
- Application: Software in theory and practice, Conducting customer briefings
- Technology: Components (structure, function, etc.) Calibration, commissioning

Objectives:

- The participant can maintain and repair MAHA test and workshop equipment

VS T32001 On site technician training MD02 LON

(1 day on site)

Extra charge: 0.89 €/journey kilometre plus VAT
or flight/train ticket + overnight accommodation

Content:

- Introduction: General information about the exhaust gas tester
- Application: Software in theory and practice, Conducting client briefings
- Technology: Components (structure, function, etc.) Calibration, commissioning

Objectives:

- The participant can maintain and repair MAHA test and workshop equipment

VS T31004 Service centre training MET 6.1/6.2/6.3/MGT5/MDO2 LON

(3 days at MAHA premises, without accommodation) per person

Content:

- Maintenance / Service
- Devices / Calibration / Adjustment
- Performing updates
- Introduction: General information about the exhaust gas tester
- Application: Software in theory and practice, Conducting customer briefings
- Technology: Components (structure, function, etc.) Calibration, commissioning Basics of network technology

Accessories:

- Replace parts/repairs
- MAHA homepage and spare parts lists

Objectives:

- Passing the final exam, the participant can apply for authorisation as a MAHA service centre
- They are hereby authorised to carry out commissioning, service and repairs for the exhaust gas tester MET 6.1/6.2/6.3/ MGT5/MDO2 LON

- see service information V-LPS-16.06 from 30.09.16

Service support bases for exhaust gas measuring equipment – concept change

VS T32004 Service centre training on site MET 6.1/6.2/6.3/MGT5/MD02 LON

(3 days on site)

Extra charge: 0.89 €/journey kilometre plus VAT
or flight/train ticket + overnight accommodation

Content:

- Maintenance / Service
- Devices / Calibration / Adjustment
- Performing updates
- Introduction: General information about the exhaust gas tester
- Application: Software in theory and practice, Conducting customer briefings
- Technology: Components (structure, function, etc.) Calibration, commissioning Basics of network technology

Objectives:

- Passing the final exam, the participant can apply for authorisation as a MAHA service centre
- They are hereby authorised to carry out commissioning, service and repairs for the exhaust gas tester MET 6.1 / 6.2 / 6.3 / MGT5 / MDO2 LON

- see service information V-LPS-16.06 from 30.09.16

Service support bases for exhaust gas measuring equipment – concept change

VS T31005 Competence training Breaks Maintenance and calibration with MAHA emission testers (MET series, MGT 5, MDO2 LON)

(1.5 days at MAHA premises, without accommodation) per person

Content:

- Legal basis
- MAHA emission tester
- Measurement method (OTTO, DIESEL)
- Device construction/maintenance/minor repairs
- Required equipment
- Calibration, adjustment in theory and practice
- Examination/certificate

VS T31006 Technician training Exhaust Calibration with MAHA emission testers (MET series, MGT 5, MDO2 LON)

(0.5 day at MAHA premises, without accommodation) per person

Content:

- Calibration, adjustment in theory and practice
- Examination/certificate

Requirements:

- Participation in an emissions training course (certificate upon registration)

Headlight Testing Technology

VS T11009 Hight voltage headlight test guidelines training

(1.5 days at MAHA premises, without accommodation) per person

Content:

Legal basis:

- Preparatory measures for headlight inspection
- Checking the adjustment of the headlights
- Requirements for test areas
- Setting dimensions and tolerances

Objectives:

- The participant is in accordance with § 29 German Road Traffic Licensing Regulation (Hight voltage headlight test directive) "knowledgeable"

Comment:

- In this training, the technical knowledge is not taught for all MAHA SEP

VS T12009 Hight voltage headlight test guidelines training

(1.5 days on site)

Extra charge: 0.89 €/journey kilometre plus VAT
or flight/train ticket + overnight accommodation

Content:

Legal basis:

- Preparatory measures for headlight inspection
- Checking the adjustment of the headlights
- Requirements for test areas
- Setting dimensions and tolerances

Objectives:

- The participant is in accordance with § 29 German Road Traffic Licensing Regulation (Hight voltage headlight test directive) "knowledgeable"

Comment:

- In this training, the technical knowledge is not taught for all MAHA SEP

VS T11013 Hight voltage headlight test guidelines training, methods and technical part

(3 days at MAHA premises, without accommodation) per person including technical parts e.g. MLT 3000/LITE 3

Content:

Legal basis:

- Preparatory measures for headlight inspection
- Checking the adjustment of the headlights
- Requirements for test areas
- Setting dimensions and tolerances

Objectives:

- The participant is in accordance with § 29 German Road Traffic Licensing Regulation (High voltage headlight test directive) "knowledgeable"

Comment:

- In this training, the technical knowledge is not taught for all MAHA SEP

VS T12013 Hight voltage headlight test guidelines training, methods and technical part

(2 days on site)

including technical parts e.g. MLT 3000/LITE 3

Extra charge: 0.89 €/journey kilometre plus VAT or flight/train ticket + overnight accommodation

Content:

Legal basis:

- Preparatory measures for headlight inspection
- Checking the adjustment of the headlights
- Requirements for test areas
- Setting dimensions and tolerances

Objectives:

- The participant is in accordance with § 29 German Road Traffic Licensing Regulation (High voltage headlight test directive) "knowledgeable"

Comment:

- In this training, the technical knowledge is not taught for all MAHA SEP

VS T11018 Hight voltage headlight test guidelines training and methods

(2 days at MAHA premises, without accommodation) per person
incl. method of calibration

Content:

Legal basis:

- Preparatory measures for headlight inspection
- Checking the adjustment of the headlights
- Requirements for test areas
- Setting dimensions and tolerances
- Final test theory and practice

Objectives:

- The participant is in accordance with § 29 German Road Traffic Licensing Regulation (Hight voltage headlight test directive) "knowledgeable"

Comment:

- In this training, the technical knowledge is not taught for all MAHA SEP

VS T11017 Routine test update training Method of calibration SEP

(1 day at MAHA premises, without accommodation) per person

VS T11008 Technician training MLT 1000/3000

(1 day at MAHA premises, without accommodation) per person

Content:

- Software update
- Operation
- Changing components

Objectives:

- The participant is hereby authorised to carry out the service and maintenance of the light adjustment unit MLT 1000/3000

VS T11026 Technical qualification for MLT 3000

(1 day at MAHA premises, without accommodation) per person

Requirements:

- Qualified person according to current directive

Content:

- Adjustment according to current directive and manufacturer's specifications
- Inspection book
- Software update
- Operation
- Troubleshooting

Objectives:

- Participants are authorised to carry out calibrations/adjustments for MLT 3000 headlight tester.

VS T11027 Technical qualification for MLT 1000/LITE 3

(1 day at MAHA premises, without accommodation) per person

Requirements:

- Qualified person according to current directive

Content:

- Adjustment according to current directive and manufacturer's specifications
- Inspection book
- Software update LITE 3
- Operation
- Troubleshooting

Target:

- Participants are authorised to carry out calibrations/adjustments for MLT 1000/LITE 3 headlight testers.

VS T11021 Competence training Lights DIN EN ISO/IEC 17025 Certificate renewal

(1 day at MAHA premises, without accommodation) per person

Certificate renewal routine inspection high voltage headlight guidelines

Proof of practical abilities via the routine test High voltage headlight guidelines

Requirements:

- PC with own access ESZ Calibration-Expert/SEPpro (not testing organisations)
- Own testing tool for routine testing for MAHA MLT 3000
- Copy of initial certificate upon registration

Content:

- Preparatory measures
- Requirements for test station
- Dimensions and tolerances
- Measured value recordings and entries in software and log book
- Calibration, adjustment, checks according to manufacturer's specifications
- Final test theory
- Practical exam (Standard compliant routine testing of a test station with MLT 3000)

Objective:

Proof of specialised suitability and extension of the existing high voltage headlight guideline certificate for another 2 years of the basic certificate

Lifting Technology

VS T41001 Basic technician training Scissor lift

(1 day at MAHA premises, without accommodation) per person

Content:

Application:

- Functional principle
- Presentation of existing documentation and plans

Technology:

- Electrics/hydraulics (structure, connections, function, Settings, important conditions for correct operation)
- Maintenance plans
- Circuit board description
- Installation (foundation, mechanics, hydraulics)
- Fault diagnosis
- Maintenance plans
- Assembly

Objectives:

- Technical knowledge for maintenance, Repair and installation of the lift
- The training also includes the proof of eligibility for the implementation of the German Accident Prevention Regulations

VS T41002 Basic technician training Two-post lift

(1 day at MAHA premises, without accommodation) per person

Content:

Application:

- Functional principle
- Presentation of existing documentation and plans

Technology:

- Electrical (structure, connections, function, settings, important conditions for correct operation)
- Maintenance plans
- Circuit board description
- Installation (foundation, mechanics, hydraulics)

Objectives:

- Technical knowledge for maintenance, repair and installation of the lift
- The training also includes the proof of eligibility for the implementation of the German Accident Prevention Regulations

VS T41003 Basic technician training In-ground lift

(1 day at MAHA premises, without accommodation) per person

Content:

Application:

- Functional principle
- Presentation of existing documentation and plans

Technology:

- Electrics/hydraulics (structure, connections, function, Settings, important conditions for correct operation)
- Maintenance plans
- Circuit board description
- Installation (foundation, mechanics, hydraulics)
- Fault diagnosis
- Maintenance plans
- Assembly

Objectives:

- Technical knowledge for maintenance, repair and installation of the lift
- The training also includes the proof of eligibility for the implementation of the German Accident Prevention Regulations

VS T41004 Basic technician training Wheel gripper lift

(1 day at MAHA premises, without accommodation) per person

Content:

Application:

- Functional principle
- Presentation of existing documentation and plans

Technology:

- Electrical (structure, connections, function, settings, important conditions for correct operation)
- Maintenance plans
- Circuit board description

Objectives:

- Technical knowledge for maintenance, repair and installation of the lift
- The training also includes the proof of eligibility for the implementation of the German Accident Prevention Regulations

VS T41005 Basic technician training Scissors/Column/In-ground lift

(3 days at MAHA premises, without accommodation) per person

Content:

Application:

- Functional principle
- Presentation of existing documentation and plans
- Technology:
- Installation (foundation, mechanics, hydraulics)
- Fault diagnosis
- Maintenance plans
- Assembly

Objectives:

- Technical knowledge for maintenance, repair and installation of the lift
- The training also includes the proof of eligibility for the implementation of the German Accident Prevention Regulations

VS T41010 Professional technician training Scissors/Column/In-ground lift

(1 day at MAHA premises, without accommodation) per person

Content:

Application:

- Functional principle
- Presentation of existing documentation and plans

Technology:

- Electrical (structure, connections, function, settings, important conditions for correct operation)
- Circuit board description
- Installation (foundation, mechanics, hydraulics)
- Fault diagnosis
- Maintenance plans
- Assembly
- Workshop lifting technology (Exchange of experiences, troubleshooting, solutions)

Objectives:

- Deepen technical knowledge gained in basic training
- Exchange of experience with other technicians
- Getting to know new products

VS T41009 Accident Prevention Regulations training Scissors/Column/In-ground lift

(1 day at MAHA premises, without accommodation) per person

Content:

Application:

- Functional principle
- Presentation of existing documentation and plans

Technology:

- Installation (structure, connections, function, settings, important conditions for correct operation)
- Maintenance plans
- Circuit board description as far as necessary for APR

Objectives:

- Imparting the technical knowledge to carry out the APR

VS T41013 Technician training 2-Post Lift MA STAR

(1 day at MAHA premises, without accommodation) per person

- Content:

Application:

- Operating principle
- Presentation of available documentation and plans

Technology:

- Electric system (structure, connections, function, settings, important requirements for proper operation)
- Maintenance plans
- New anchoring system
- Installation (foundation, mechanics)

Objectives:

- Basic technical knowledge of maintenance, repair and installation of lift
- Training also includes the credentials for performing the UVV inspection (German Accident Prevention Regulation)

VS T41014 Kombi-training Basic technician training Scissors/Column/In-ground lift Basic technician training Electrical engineering, read circuit diagrams

(4,5 days at MAHA premises, without accommodation) per person

Content:

Application:

- Operating principle
- Presentation of available documentation and plans
- Technology:
 - Installation (foundation, mechanics, hydraulics)
 - Troubleshooting
 - Maintenance plans
 - Assembly
- Basic knowledge of electrical engineering
- The seminar provides a basic introduction into electrical engineering
- The training course helps non-experts develop a better understanding of electrical installations and the ability to roughly dimension them

Content:

- Basics and terminology of electrical engineering
- Definition of current, voltage, resistance
- Inductive and capacitive components, transformers and capacitors
- Direct current, one-phase alternating current and three-phase current
- Simple circuits, circuits with switchgears and protection devices
- Electrical power and work
- Marking of electrical equipment
- Description of electrical installations by using symbols and circuit documentation
- How to read circuit, cable and terminal diagrams
- Electrical troubleshooting
- Professional handling of a multimeter

Objectives:

- Basic technical knowledge for maintenance, repair and installation of lift.
- Structured electrical troubleshooting via circuit diagram.
- Training also includes the credentials for performing the UVV inspection (German Accident Prevention Regulations).

Electrical

VS T41012 Basic technician training Electrical engineering, read circuit diagrams

(2 days at MAHA premises, without accommodation) per person
Min. 2 people/max. 6 people

- Basic knowledge of electrical engineering
- The seminar introduces the basics of electrical engineering
- With the help of continuing education, non-electronic engineers also gain a deeper understanding of electrical systems and learn to roughly size them

Content:

- Fundamentals and concepts of electrical engineering
- Definition of current, voltage, resistance
- Inductive and capacitive components, transformers and capacitors
- DC, single-phase AC and three-phase current
- Simple circuits and circuits with switching devices and protective devices
- Electrical power and work
- Labelling of equipment and devices
- Presentation of electrical installations and systems through symbols and circuit documentation
- Read circuit diagrams, cable and terminal diagrams
- Electrical troubleshooting
- Professional handling of a multimeter