



Email :
sales@laboratoryinstrumentsmanufacturers.com

Product Name :
Basic Equipment Set Incl. Cover Lab Assistance and
Interactive Course, Mobile Stand Table

Product Code :
LIM-CAT-L0072-00066



Description :

Basic Equipment Set Incl. Cover Lab Assistance and Interactive Course, Mobile Stand Table

Technical Specification :

Basic Equipment Set Incl. Cover, Lab Assistance / Interactive Course, Mobile Stand (Table)

Learning contents:

Hazard assessment before beginning recovery

Procedures for rescuing people from HV vehicles

Application of personal protective measures against electric body flow

Securing the vehicle key/shutting off the vehicle electrical system

Use of rescue cards

Setting up a rescue card database and preparing it for rapid deployment

Safe and fast shutdown of the HV system

Evaluation of the hazard potential of an HV battery (in use)

Special features of securing the accident site

First aid measures

Procedure for damaged HV vehicles

Hazard assessment before transporting a damaged HV vehicle

Correct transport of damaged HV vehicles

The following components are included in the scope of delivery:

Car Trainer Accident Assistance and Recovery of HV Vehicles

E-learning course for Windows systems (PC, laptop, tablet) without license commitment

Instruction manual

The eLearning course is equipped with numerous videos, animations and images and offers the following thematic contents (overview):

Types of electric and hybrid vehicles

Identification of hybrid and electric vehicles

Identification of HV components in the vehicle

Main differences between hybrid and electric vehicles

Hazards associated with HV systems

Hazards due to damaged HV components

Hazards associated with damaged HV vehicles

Safety precautions before starting recovery operations

Hazards associated with handling HV batteries

Typical location and arrangement of HV components

HV disconnect devices

LV disconnecting devices

Special NV disconnect devices for rescue workers.

Identifying the READY state of the vehicle

Storage of damaged electric and hybrid vehicles

Safe approach to an electric or hybrid vehicle

Vulnerable groups in incidents involving electric/hybrid vehicles

Assessing the extent of HV vehicle damage

Use of rescue cards

Access to additional support/information gathering

First aid in the event of electrocution

Protection methods for rescuing people and others

Damaged HV vehicles

Safe transport and storage of an electric or hybrid vehicle

The following activities can be performed directly on the hardware:

Switching on/off the READY mode

Switching off the HV system via an HV switch-off device

Switching off the HV system via an NV switch-off device

Switching off the HV system by means of a special fuse

Switching off the HV system by means of a cutting solution

Working/securing a smart key

Visual inspection of the presence of HV voltages in components of the HV system

Manufacturer-dependent discharge characteristics of the HV capacitor

Application of thermal cameras

The training system offers the possibility to activate various accident scenarios in order to plan and work through the appropriate procedure together:

Scenario 1: READY mode of the HV vehicle cannot be switched off.

Scenario 2: Severe damage to the rear (and HV battery).

Scenario 3: Damaged HV vehicle

Scenario 4: Burning HV vehicle

Scenario 5: Trapped driver

The training hardware works only with a simulated HV voltage, i.e. the participants have the possibility to learn completely relaxed and concentrated, since even in reality serious mistakes, here no serious consequences bring. The intention of the hardware is to be as practical as possible, which is why the hardware has the following components:

Representation of the front graphic in the rescue card design

Real HV cut-off device from the vehicle

Real LV disconnecting device from the vehicle

Real HV fuse from the vehicle

Real cutting solution

Display of the HV voltages component-related via displays

Selection of passive or active discharge of the HV condenser

Safe heating of the HV battery with activated fault scenario

12V battery

Smart Key to activate the vehicle

Start button and brake button to switch on READY mode

HV fault indication

Dimensions

Dimensions: 1000 x 800 x 220mm (WxHxD)

Weight: 35kg

Mobile experiment stand, 1070 x 1350 x 700mm (W x H x D)

The mobile experiment stand made of aluminium profiles is designed for mounting the training systems. High-quality, mobile experiment and demonstration stand from the series complete with table legs made of aluminium profiles, PC installation bracket, under-cabinet with drawers and additional storage shelf.

Tabletop + storage shelves:

Tabletop 1000 x 700 x 30 mm (WDH), tabletop height 830 mm

Bottom shelf/storage shelf 1000 x 525 x 25mm

Tabletops made of highly compressed, multi-layered fine chipboard conforming to DIN EN 438-1

Colour grey, RAL 7035, with slightly textured coating (Resopal) 0.8 mm thick on both sides, conforming to DIN 16926

Resistant to many chemicals and reagents, such as dilute acids and bases

Resistant to heat, e.g. liquid solder and point heating caused by soldering iron, lit cigarette or similar.

Table-top frame with solid, impact-resistant edging made of 3-mm thick coloured plastic, colour RAL 7047

Coatings and adhesive are PVC-free

Power supply with 6-outlet power terminal strip, mounted underneath the frame, 2-m power cable and Schuko earthed plug.

Frame:

2 extruded aluminium profiles with multi-groove profile

8 identical grooves in the extruded aluminium profiles (3 on each side + 1 each front and rear)

Grooves to accommodate industry-standard equipment holders

Stable roller frame made of rectangular tube with 4 two-wheeled swivel casters, 2 with brakes

Table frames made of rigid rectangular tubing combination

Acid-resistant epoxy-resin coating, 80µm thick, colour RAL 7047

Suspended under-cabinet:

1 drawer for utensils

2 drawers 2 HU

Effective width 330mm, effective depth 480mm

Lockable and with central locking system

Metal drawers with all-around series of insert slots

Body made of 19-mm thick, highly compressed, multi-layer fine chipboard with plastic coating conforming to quality class E1 on both sides

Dimensions: 430 x 580 x 290mm (W x H x D)

PC attachment bracket:

With 3 screwed-in rubber stoppers, dimensions 65 x 65 x 114 mm (secures the PC in place from above)

The PC attachment bracket can be adjusted in terms of its height at the aluminium profile

Can be mounted on the left or right, includes attachment materials

Acid-resistant epoxy-resin coating, 80 µm thick, colour RAL 7047

Dimensions:

Tabletop height 830mm

Dimensions without training system attachment: 1070 x 1350 x 700 (W x H x D)

Dimensions with training system attachment: 1070 x 1650 x 700 mm (W x H x D)

Protection cover:

For protecting equipment from dust and damp

Colour: matt dark grey

Non-transparent material: nylon fabric with polyurethane coating

High resistant to tearing, impregnated to be washable and waterproof

The mobile experiment stand has to be delivered already pre-assembled.



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