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Automotive | Hybrid & EV

Hybrid and Electric Vehicles Trainer



Hybrid and Electric Vehicles Trainer

Hybrid and electric vehicles constitutes one of the most innovative and trail-blazing sectors of automotive technology. Aspects such as the exhaustion of fossil fuels and global climate change have brought the topic to the forefront of public opinion. Research developments have advanced to the point where the global market breakthrough for electrically powered vehicles is inevitable in the very near future. Current developments are showing that politicians as well as vehicle manufacturers have seen the signs of the times and authorisation of electric vehicles is increasing throughout the globe. At the same time, such developments are opening up the need for mechanics specifically trained in this new and challenging technology. With electric power, electrical engineering and electronics will finally be the overwhelming aspect in vehicles.

Photovoltaics Trainer



Photovoltaics Trainer

The term photovoltaics indicates the direct conversion of (sun)light into electrical energy, which is achieved by means of solar cells. With the help of the energy so obtained, it is possible to add new components to enhance the comfort of drivers, e.g. by providing additional interior cooling when the sun is shining too brightly. With the help of our training systems on photovoltaics, trainees can understand the basis of this technology very rapidly.

UniTrain



UniTrain

Please choose your product:

Photovoltaics



Photovoltaics

The term photovoltaics means a direct conversion of sunlight into electrical energy by means of solar cells. The energy obtained in this manner can be supplied to ancillary consumers to enhance driving comfort, e.g. to additionally cool a vehicle's interior in extremely bright sunshine. With our UniTrain-I Photovoltaics System students very quickly grasp the fundamentals of this technology.

List of articles:

Pos.	Product name	Bestell-Nr.	Anz.
1	UniTrain "Photovoltaics for motor vehicles"	CO4205-1P	1

Additionally required:

The UniTrain-I system is a computer-based training and experimentation system for vocational and further training and education in the areas of basic and advanced electrical engineering and electronics. Its multimedia courses combine cognitive and hands-on (haptic) training units into a comprehensive unified concept, specifically enabling students to acquire skills in the handling of equipment. Starting with basic courses and advancing to cover a huge variety of electrical engineering and electronics topics, a wide range of multimedia courses is available for study in school or in professional and advanced training courses. The UniTrain-I system is completely self-contained and can be used anywhere at any time. The multimedia learning environment the system provides high degrees of motivation, and maximum learning effectiveness in laboratories, at work or at home. It thus becomes a guarantor for effective and efficient study. Access to the multimedia courses and control of virtual instruments and experiment hardware is provided by LabSoft, the system's open experiment platform. The courses teach the theoretical building blocks and provide experiments to be carried out using the coursespecific experiment hardware. The intelligent measurement interface supplies the analog and digital measuring and control I/O and represents, in combination with the system's virtual instruments, a high quality item of laboratory equipment. In addition, students' progress can be monitored and electronically documented on the basis of fault finding experiments with faults simulated by the hardware as well as tests of knowledge. The electrical and electronic circuits needed for the experiments are connected to the system with the aid of an Experimenter module.

Pos.	Product name	Bestell-Nr.	Anz.
2	UniTrain Interface with virtual instruments (basic VI)	CO4203-2A	1
3	UniTrain measurement accessories, shunts and connection cables	CO4203-2J	1

Additionally recommended

Pos.	Product name	Bestell-Nr.	Anz.
4	UniTrain storage case for experiment board	SO4203-2V	1