

ELECTRICITY & ELECTRONICS

Prepare students for careers as electricians and electrical maintenance technicians

Students should understand the electricians' and electronics technicians' role in any industry, from construction to HVAC, as well as the safety procedures and best practices that go along with the trade.

Black box training systems from Festo offer modules with fault insertions that familiarize students with troubleshooting scenarios they will encounter on the job. Hard-wired training systems from Tech Skills International offer an authentic real-world environment via blank electrical boxes in which students install components from scratch. Training systems from HFT Education feature a broad range of topics that take students deep into the world of electronics.

COVER PLCs FOR ELECTRONICS

➔ PLC Training



Teach the basics of how PLCs work with a training system from Festo that covers operating, programming and troubleshooting modern Allen-Bradley PLC-controlled systems.

EXAMINE ELECTRICAL THEORY AND SKILLS

➔ Exploring Electricity



This teaching module from Festo asks students to build a variety of series circuits, parallel circuits, and logic circuits using electrical leads. Students

also learn to calculate electric values and measure them with a digital multimeter.

➔ Electric Motor Control for Electrical Technicians



The Tech Skills International Electric Motor Control for Electrical Technicians course provides competency-based,

hands-on training for installing, adjusting, testing, and troubleshooting electric motor drive systems.

➔ Electric Power Technology Training Systems



This Festo trainer introduces electrical energy fundamentals, like AC / DC power circuits, power transformers, rotating machines, AC power transmission lines, industrial controls, and power electronics. It also includes advanced subjects such as renewable home energy, hydropower, wind power, smart-grid technologies and storage of electrical energy in batteries.

➔ Industrial Controls Training Systems



Designed to teach the theory and techniques of electric motor controllers, these Festo trainers allows students to select and mount control devices to form typical control circuits, and to troubleshoot them once a fault is inserted.

➔ Industrial Wiring Training Systems



These hands-on systems from Festo use high-quality UL-listed components and reproduce an industrial environment where students can develop their skills in the installation and wiring of industrial electrical equipment, in compliance with the National Electrical Code® (NEC®).

EXPLORE ELECTRONICS RELATED CAREERS

➔ Preparatory Electricity and Electronics Trainer (PEET)



This Festo system offers eight different preparatory electricity and electronics trainers, which support a combination of instructional modules: Fundamentals of AC/DC, Basic Electronics, and Motors and Generators.

➔ FACET® Electronics Training System



A unique combination of hardware and software, these Festo modular training systems encompass four areas of study: Basic Principles of Electricity and Electronics, Digital and Microprocessor Electronics, Industrial Electronics, and Communications. With these systems, circuits can be faulted to teach real-world troubleshooting

➔ Electronics Teaching Range



This range from HFT Education comprises a series of modular boards and accessories for practical experimentation and fault-finding with Basic Electricity, Digital Electronics, Industrial Electronics, Linear Electronics, Power Electrics and Sensors and Transducers.