

Industrial Electronics Technology

Degree Type

Associate in Applied Science

ASSOCIATE DEGREE IN APPLIED SCIENCE INDUSTRIAL ELECTRONICS TECHNOLOGY 72 SEMESTER HOURS

When production workers encounter problems with the machines they operate, they call industrial technicians. Industrial technicians install, replace and repair equipment in industrial settings. Students in these options are prepared for industrial maintenance and industrial technician positions.

Industrial electronics technicians set up and service the electronic equipment that controls machines and production processes in industries. As facilities update and invest in new equipment to boost productivity and improve product quality, they increasingly rely on IETs to properly install and align industrial control systems and machinery. Preventive maintenance on such equipment as digital and microprocessor-based systems, programmable controls, motor drive systems, power systems and robotics is important and necessary to prevent production delays.

Industrial maintenance technicians are expected to troubleshoot malfunctions and perform preventive maintenance and emergency fixes on structures, equipment and facilities, and may do some carpentry and electrical work. Maintenance technicians are responsible for ensuring quality and safe production by guaranteeing smooth operation of equipment, including motors, pneumatic tools, conveyor systems and production machines as outlined in operations manuals, manufacturer's instructions and sketches.

Students in OCtech's IET and IMT programs receive a well-rounded education. Hands-on experience in technical courses gives students practical knowledge and further emphasizes concepts presented in the classroom. Classes in oral and written communications, computer skills, mathematics and interpersonal skills are also part of the required curriculum.

Fall I

Course Number	Title	Credits
EET-113	Electrical Circuits I	4
IMT-131	Hydraulics and Pneumatics	4
IMT-210	Basic Industrial Skills I	3
MAT-101	Beginning Algebra	3
ENG-160	Technical Communications	3

Spring I

Course Number	Title	Credits
EEM-165	Resident/Commer Wiring	4
IMT-211	Basic Industrial Skills II	3
MAT-102	Intermediate Algebra	3
PSY-103	Human Relations	3

Summer I

Course Number	Title	Credits
EEM-131	Solid State Devices	4
EEM-230	Digital Electronics	4
EEM-251	Programmable Controllers	3
HSS-101	Introduction to Humanities	3

Fall II

Course Number	Title	Credits
EEM-252	Programmable Controllers Applications	3
EEM-145	Control Circuits	3
EEM-215	DC/AC Machines	3
IMT-223	Packing & Seals	3
EEM-140	National Electrical Code	3

Spring II

Course Number	Title	Credits
EEM-235	Power Systems	3
EEM-221	DC/AC Drives	3
IMT-232	Gear Boxes	3
IMT-230	Reliability Centered Maintenance	3
IDS-112	Employability Skills for Career	1

Spring II (Co-Op Option)

[EEM-204](#) SCWE in Residential/Commercial Electrical Technician replaces [IMT-230](#).

Total Credits	72
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