



TENNESSEE COLLEGE OF APPLIED TECHNOLOGY

KNOXVILLE

Program	Course Code	Description	Customary Hours
Industrial Electricity	IE-0101	Basic Safety	25
Industrial Electricity	IE-0103	Introduction to Hand Tools	15
Industrial Electricity	IE-0104	Introduction to Power Tools	15
Industrial Electricity	IE-0105	Introduction to Construction	15
Industrial Electricity	IE-0106	Introduction to Basic Rigging	12
Industrial Electricity	IE-0107	Basic Communication Skills	12.5
Industrial Electricity	IE-0108	Basic Employability Skills	12.5
Industrial Electricity	IE-0109	Introduction to Material Handling	10
Industrial Electricity	IE-0150	Orientation to the Electrical Trade	10
Industrial Electricity	IE-0151	Electrical Safety	25
Industrial Electricity	IE-0152	Introduction to Electrical Circuits	25
Industrial Electricity	IE-0153	Electrical Theory	25
Industrial Electricity	IE-0154	Introduction to NEC	25
Industrial Electricity	IE-0155	Device Boxes	25
Industrial Electricity	IE-0156	Hand Bending	25
Industrial Electricity	IE-0157	Raceways and Fittings	35
Industrial Electricity	IE-0158	Conductors and Cables	25
Industrial Electricity	IE-0159	Basic Electrical Construction	25
Industrial Electricity	IE-0160	Residential Electrical Services	30
Industrial Electricity	IE-0161	Electrical Test Equipment	20
Industrial Electricity	IE-0201	Alternating Current	50
Industrial Electricity	IE-0202	Motors: Theory and Application	50
Industrial Electricity	IE-0203	Electric Lighting	45
Industrial Electricity	IE-0204	Conduit Bending	45
Industrial Electricity	IE-0205	Pull and Junction Boxes	30
Industrial Electricity	IE-0206	Conduit Installations	35
Industrial Electricity	IE-0207	Cable Tray	30
Industrial Electricity	IE-0208	Conductor Terminations and Splices	30
Industrial Electricity	IE-0209	Grounding and Bonding	15
Industrial Electricity	IE-0210	Circuit Breakers and Fuses	35
Industrial Electricity	IE-0211	Control Systems and Fundamentals	32
Industrial Electricity	IE-0301	Load Calculations	45
Industrial Electricity	IE-0302	Conductor Selection	40
Industrial Electricity	IE-0303	Practical Applications of Lighting	35
Industrial Electricity	IE-0304	Hazardous Locations	40
Industrial Electricity	IE-0305	Overcurrent Protection	50
Industrial Electricity	IE-0306	Distribution Equipment	35
Industrial Electricity	IE-0307	Transformers	35
Industrial Electricity	IE-0308	Commercial Electrical Services	35
Industrial Electricity	IE-0309	Motor Calculations	40
Industrial Electricity	IE-0310	Voice, Data, and Video	35
Industrial Electricity	IE-0311	Motor Controls	42
Industrial Electricity	IET-0050	Technology Foundations	0
Industrial Electricity	IET-1000	Electrical Safety	50
Industrial Electricity	IET-1500	Electricity Concepts DC	74
Industrial Electricity	IET-2000	Electricity Concepts AC	200
Industrial Electricity	IET-3000	General Electrical	250

Industrial Electricity	IET-4500	Wiring Methods/Service	200
Industrial Electricity	IET-5000	Electrical Wiring	250
Industrial Electricity	IET-5500	Electrical Wiring	122
Industrial Electricity	IET-6000	Motors/Transformers	60
Industrial Electricity	IET-6500	Electric Motor Controls	324
Industrial Electricity	IET-7000	Programmable Logic	324
Industrial Electricity	IET-7500	Internship Program	90