

	<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>
Year 1	<ul style="list-style-type: none"> • Introduction to Electrical Safety • Introduction to NEC (National Electrical Code) • Introduction to Local Building Code Requirements • Basic AC Circuit Flow • Drawing Basic Residential Circuits • Electrical Symbols • Introduction of Basic Residential Circuits • Residential Wire Types 	<ul style="list-style-type: none"> • Residential Wiring Methods • Ground Fault Circuit Interrupters • Arc-Fault Circuit Interrupters • Surge Suppressor Circuits • Types of Lighting Fixtures • Residential Lighting Branch Circuits • Residential Branch Circuits • Service Entrance Installation and Equipment 	<ul style="list-style-type: none"> • Kitchen Wiring • Bathroom Wiring • Bedroom Wiring • Living Room, Dining Room, Hall Wiring • Garage Wiring • Outside Wiring 	<ul style="list-style-type: none"> • Special Purpose (120-Volt) Outlets • Special Purpose (240-Volt) Outlets • Smoke, Heat, Carbon Monoxide, and Security System Circuits • Basic Relay Logic • Introduction Bending Conduit • Junior Portfolio
Year 2	<ul style="list-style-type: none"> • Residential NEC Review and Requirements • Over-current Protection (Fuses and Circuit Breakers) • Service Entrance Calculations • Swimming Pools, Spas, and Hot Tubs Requirements 	<ul style="list-style-type: none"> • Stand by (Generator) Power Systems • Industrial Electric Symbols and Line Diagrams • Logic Applied Line Diagrams • AC Motor Starters • Magnetic Solenoids 	<ul style="list-style-type: none"> • AC/DC Contactor Motor Starters • Time Delay Relay Logic • Reversing Motor Control Circuits • Solid-State Electronic Devices • Photoelectric Proximity Controls • Programmable Controllers 	<ul style="list-style-type: none"> • Preventative Maintenance Troubleshooting • Draw Ladder Diagrams • Career Exploration • Senior Portfolio