

Electrical for Construction and Industrial Electrical

	Electrical for Construction	Industrial Electrical
Focus	Residential, commercial, and institutional buildings during construction	Factories, power plants, manufacturing facilities, and other industrial settings
Key Characteristics	• Installs wiring, lighting, outlets, and panels in new buildings • Works from blueprints and building codes • Collaborates with contractors and other trades on-site • Uses standard tools like drills, saws, and screwdrivers • Typically deals with low to medium voltage systems • Commonly found on construction sites for homes, offices, schools, etc.	• Installs and maintains complex machinery and control systems • Works with high-voltage equipment, motors, generators, PLCs, and automation systems • Requires deeper knowledge of industrial processes and safety protocols • Often performs preventive maintenance to avoid costly downtime • Reads and interprets detailed schematics and electrical diagrams • Operates in environments with specialized equipment and regulations
Work Environment	Buildings under construction	Factories, plants, industrial sites
Voltage Range	Low to medium	Often high voltage
Equipment Used	Basic wiring and fixtures	Motors, PLCs, transformers
Complexity	Moderate	High
Collaboration	With builders and contractors	With engineers and technicians
Safety Requirements	Standard building codes	Strict industrial safety protocols