

OTC Construction Trades Department

Program Learning Outcomes

Electrical Technician – ELC

1. Demonstrate behaviors that contribute to professional success including time management, teamwork, and communication with both industry professionals and customers.
2. Locate and interpret electrical codes & regulations.
3. Apply electrical theory, Ohm's Law, and NEC to size electrical systems for residential, commercial, and industrial needs.
4. Interpret wiring diagrams, construction documents, and schematics.
5. Demonstrate basic conduit bending and installation techniques.
6. Use specialized electrical tools to troubleshoot, repair, and service electrical systems.
7. Install electrical components in residential, commercial, and industrial settings.
8. Have a working knowledge of alternative energy sources.
9. Install and maintain main service equipment including breaker panels and disconnects.
10. Demonstrate safety practices common to the electrical trade.