Electrical Skills Level I
40 hours

- Electrical safety
- Introduction to electricity
- Using multimeters
- Current electricity
- DC circuits
- Principles of alternating current
- Inductance
- Three phase systems
- American Standard Color Code
- European Standard Color Code
- Symbols

Course Materials

Student Materials: Textbook "Electricity and Electronics" by Gerrish/Dugger/Roberts

Course Logistics

Number of Hours: 40
Location: To be taught on-site or at the college
Number of Students: 8
Credit: Students completing 90% or more of the course will receive 2 – 3 BIT credits.

Electrical Skills Level II
40 hours

- Relay Diagrams
- Motor Control
- Ladder Diagrams
- Intro to Ladder Logic

Course Materials

Student Materials: Textbook "Electricity and Electronics" by Gerrish/Dugger/Roberts

Course Logistics

Number of Hours: 40

Location: To be taught on-site or at the college
Number of Students: 8
Credit: Students completing 90% or more of the course will receive 2 – 3 BIT credits.

Programmable Logic Controllers
24 hours

- Intro to RS Logix Software
- Ladder Logic
- Instruction Types
- Data Types
- Counters Operation
- Timer Operation

Course Materials

Student Materials: Textbook "Programmable Logic Controllers" by Frank D. Petruzella

Course Logistics

Number of Hours: 24
Location: To be taught on-site or at the college.
Number of Students: 8
Credit: Students completing 90% or more of the course will receive 1-2 BIT credits.