



Electromechanical Technology – Electrician Specialty

Level 1 Certificate

Manufacturing, Logistics, & Transportation Pathway

AC Course Number	Required Course Titles	Credit Hours	Semesters Offered	Course Modalities
FIRST YEAR				
First Semester				
<input type="checkbox"/> ELPT 1411	Basic Electrical Theory	4	F	Hyb
<input type="checkbox"/> ELPT 1321	Intro to Electrical Safety and Tools	3	F	Hyb
<input type="checkbox"/> ELPT 1441	Motor Control	4	F	Hyb
<input type="checkbox"/> ELPT 1429	Residential Wiring	4	F, Sp	Hyb
Second Semester				
<input type="checkbox"/> ELPT 1445	Commercial Wiring	4	Sp	Hyb
<input type="checkbox"/> TECM 1301	Technical Mathematics	3	F, Sp, Su	Hyb
<input type="checkbox"/> DFTG 1325	Blueprint Reading and Sketching	3	F, Sp, Su	Hyb
<input type="checkbox"/> ELMT 2381 or ELPT 2319	Cooperative Education or Programmable Logic Controllers I	3	Sp	Hyb
TOTAL CREDIT HOURS		28		

Semesters: Fall (F), Winter (W)Spring (Sp), Summer (Su)

Modalities: Face-to-face (F2F), Internet/online (Int), Hybrid (Hyb)



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Transfer Opportunities

Bachelors of Applied Arts and Science at some universities. Students should check with the receiving institution to verify transferability.

Marketable Skills

- Work well on a team
- Define, explain and interpret technical information
- Use critical thinking to identify strengths and weakness to determine solutions
- Identify appropriate information sources
- Use math to answer questions
- Schedule/coordinate Operations
- Use current technology to diagnose and solve problems
- Use Troubleshooting to determine causes and decide what to do about it
- Think on your feet

Career Opportunities and Salaries

Licensed Apprentice Electrician - \$29,799
Journeyman Electrician (with 8000 hours & exam through TDLR) –\$44,844
Master Electrician (with additional 4000 hours & exam through TDLR) - \$90,420
Equipment Installer - \$24,485
Electrical Maintenance - \$24,485

Technical Skills

- Use Test Equipment
- Wiring Skills
- Troubleshoot Motor Circuits
- Setup Programmable Logic Controllers

Semesters: Fall (F), Winter (W)Spring (Sp), Summer (Su)

Modalities: Face-to-face (F2F), Internet/online (Int), Hybrid (Hyb)