

ELECTRICAL TECHNOLOGY/ ADVANCED MANUFACTURING

Students are dually enrolled in high school and SUNY Adirondack, Queensbury campus, as a non-matriculated student for this two-year program. Upon completion, a student is eligible to earn up to 27 college credits toward an Associate in Applied Science (AAS) degree in Electrical Technology.

- A mix of college-level courses, job skills and technical education help train the “industrial athletes” of the future. BOCES educators and SUNY Adirondack professors work together in the Early College Career Academy to provide students a transdisciplinary environment that encompasses all learning styles and individual strengths.
- Every student will be provided with 1:1 technology.
- The sequence of coursework in this program will ensure job-ready skills and the opportunity to earn nationally recognized certifications from the Manufacturing Skill Standards Council (MSSC).
- All students are given the opportunity to participate in Work-Based Learning experiences that connect students with future employers through site tours, job-shadowing and mentorship.



Curriculum includes:

- Computer-Aided Design (CAD)
- 3D Printing & Rapid Prototyping
- CNC Machining/High Precision Technologies
- Advanced Robotics & Automation
- Control Systems
- Green Technologies & Advanced Materials

Certifications:

- MSSC Safety
- MSSC Quality & Measurement
- MSSC Manufacturing Processes Production
- MSSC Maintenance Awareness

Students who receive all four certifications can achieve status of Certified Production Technician.

Students completing the program successfully qualify to work as:

- Team Assembler
- Machinist
- Welder, Cutter, Solderer & Brazier
- Inspector, Tester, Sorter, Sampler & Weigher
- Computer Controlled Machine Tool Operator
- Tool & Die Maker
- Bookkeeping, Accounting & Auditing Clerk

Employment opportunities requiring further education:

- Electrician
- Engineer
- Manufacturing Technician
- Industrial Product Manager
- Research Analyst
- Fabrication Specialist
- Quality Control Manager



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