

Electromechanical Technology I – 1st Year

The Electromechanical Technology I program is designed to prepare students for employment in any one or all of the following occupational areas: Residential Wiring, Commercial Wiring, Industrial Wiring, and Electromechanical Technology. The student will be actively involved in classroom electrical theory and practical lab as well as field experience in various construction and industrial situations. It is the goal of the program is to not only prepare students for entry level employment but also to provide them with the necessary knowledge of electrical theory and concepts. This will enable students to keep pace with the rapidly changing electrical field. The State of West Virginia now requires all persons working in the electrical trade to be licensed. This requirement has increased the demand for skilled electricians who have the knowledge and ability to meet the licensing requirements.

ADMISSION CRITERIA:

Health - Electricians are required to work from ladders and scaffolding, lift loads of up to forty (40) pounds, and stand for long periods of time on concrete floors; therefore, any student enrolling in this program must possess the strength and physical health to accomplish these tasks.

MAJOR UNITS OF STUDY:

- Electrical Theory - DC
- Electrical Wiring Techniques
- Electrical Power Theory
- Industrial Control Technology

Upon successful completion of the program, the graduate shall receive a certificate. This certificate will allow the graduate to take the WV State Journeyman's Test. Upon passing the test, the graduate will be licensed by the State of West Virginia as a JOURNEYMAN ELECTRICIAN.

The Electromechanical Technology I first year program at James Rumsey offers three levels of certification:

1. Residential
2. Commercial
3. Industrial - Students receiving the Industrial Certification may also receive 24 hours college credit from Blue Ridge Community and Technical College or Mountain State University, and will be eligible to enroll in the second year Electromechanical Technology II Program, if an 80% average is maintained.

Electromechanical Technology II – 2nd Year

The second year of the Eelctromechanical Technology Program begins with a clear focus on industrial safety and chemical hazards and moves rapidly into a “hands on” environment studying the following:

Motor Controls	Power Distribution	Relay Logic	Line Logic
VFDs	Field Devices	Power Gen	AC/DC
AB PLCs	Pneumatics	Hydraulics	Mech Power Transfer
Pumps	Piping Comp	Utilities- Ind	Shop Skills
Eng Design	Vacuum	Lighting	Metal Fab
Machining	Welding	Maint Software	Proc Understanding
Troubleshooting	Fasteners	Lubrication	Structural
App Physics Prin	Circuit Analysis	Interpersonal Skills	Proj Development

Our goal is to prepare highly competent electromechanical industrial maintenance technicians capable of working with minimal supervision as soon as they begin their new career. These multi-skilled maintenance technicians will be able to apply their newly acquired skills to most local industrial environments.

This program is accredited with Blue Ridge Community & Technical College and upon completion of the program, an additional 24 hours of credit is awarded for a total 48 hours of credit. 24 hours of elective credit may be awarded at Mountain State University. James Rumsey will award a certificate of Electromechanical Technology to each student successfully completing Electromechanical Technology I & II.

Student Placement Sites

3M	American Woodmark	Fabritek
Arcata Graphics	Berryville Graphics	Baer Foods
Crawford Electronics	Delta Electric	Electrical Contractors
Funk Electric	General Motors	IGM Electric
Global-Chemstone	Knouse Foods	New World Pasta
Allegheny Power	Quad Graphics	Rich Products
Trumbo Electric	Variform	Winchester Electric
Packaging Corp Inc	Pepsi Bottlers	Quebecor
HP Hood	Morningstar Foods	Metro Rail
Unilever-Breyers	Royal Vendors	Guardian Fiberglas
Consolidated Elec	Fed Ex	Mountain State Elec
Essroc	TriState Elec	Craig's Elec
Everly Elec	Ellsworth Elec	Miller Elec
G & Triple T Elec	M L Dean	S & S Elect
LDH Elec	Henry Elec	South Atlantic Controls
RCD Elec	Metro Rail	