

# Electrical Maintenance Mechanic

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## Diploma

(Code: MVEMM)

This program is designed to train students to maintain, repair and service electrical and electronic equipment found in industry. Students will get a background in electricity, solid state electronics, motors and controls, programmable logic controllers, automated manufacturing systems, process control systems, and general welding. Upon satisfactory completion of the program and a GPA of 2.0, the student will be awarded a diploma. If the student wishes to transfer into one of the two Industrial AAS degree programs that are offered by the college a number of credits earned in the diploma program can be transferred towards completion of these programs.

| <b>General Education</b>    |  | <b>Credit Hours</b> |
|-----------------------------|--|---------------------|
| ENG105                      | Composition I  | 3                   |
|                             | or   |                     |
| ENG111                      | Technical Writing                                    | (3)                 |
| MAT790                      | Shop Mathematics                                     | 3                   |
| <b>Total</b>                |  | <b>6</b>            |
| <b>Program Requirements</b> |  |                     |
| ELE151                      | National Electrical Code I                           | 3                   |
| ELT111                      | Introduction to Electronics                          | 3                   |
| ELT170                      | Introduction to PLCs                                 | 3                   |
| ELT220                      | AC-DC Motors and Controls                            | 5                   |
| ELT241                      | PLCs II  | 3                   |
| ELT395                      | Advanced Electrical Circuits                         | 5                   |
| IND189                      | Introduction to Mechatronics                         | 5                   |
| IND115                      | Occupational Safety, Health & Environmental Concerns | 1                   |
| IND125                      | Introduction to Process Control                      | 3                   |
| IND153                      | Industrial Mechanics                                 | 3                   |
| WEL116                      | General Welding                                      | 1                   |
| <b>Total</b>                |  | <b>35</b>           |
| <b>Total Required Hours</b> |  | <b>41</b>           |