

# **ELECTRICAL POWER DISTRIBUTION**

**mechanic**

**technician**

**communicator**

**diagnostician**

# Electrical Power Distribution

Technical Diploma: 31-413-2  
Campus: Beaver Dam

## Description

The Electrical Power Distribution program provides theoretical and hands-on training in all phases of power line construction and maintenance. Individuals must have: the ability to work at heights and in all weather conditions, good eyesight and hearing, and manual dexterity to be successful in a career as a line mechanic. A Class A Commercial Driver's License (CDL) is included in the program.

This technical diploma program prepares students for entry-level employment as line technician trainees for electrical utilities, telephone companies and related businesses. Graduates of the program may enter their employer's apprentice program.

## Program Outcomes

- Apply safety rules to electrical power distribution work activities.
- Construct overhead electrical distribution systems.
- Construct underground electrical distribution systems.
- Demonstrate the required physical skills for a line worker.
- Integrate electrical theory fundamentals with electrical distribution needs.
- Operate equipment associated with electrical power distribution.
- Provide single- and three-phase service voltages.

## Program Outcomes (Cont.)

- Utilize both hands to perform pole work.
- Work within a team setting.
- Construct overhead electrical transmission system.

## Career Opportunities

- Apprentice Line Worker
- Apprentice High-Voltage Line Technician
- Apprentice Substation Maintenance Mechanic
- Apprentice Electrician
- URD Installer
- Line Construction Worker
- Electrical Meter Reader
- Pole Inspection Worker
- Line Clearance Tree Trimmer

## Salary Range for Recent Graduates

\$12.00 - \$22.00 Per Hour

Note: Students must purchase a tool kit for this program. A field experience day is held in October or April to give applicants an opportunity to learn about careers, job opportunities and endurance expectations and to experience pole climbing. A clean driving record is required for employment in this field.

## Admission Process

- Submit the college admission application.
- Submit the \$30 one-time fee.
- Submit high school/other college transcripts.
- Take the college placement assessment (ACCUPLACER, ACT or other).
- Meet with an admissions specialist.
- Check with Admissions for additional steps.

# Electrical Power Distribution

# 2007-2008 Curriculum

| Course Number                    | Course Title                                  | Credits |
|----------------------------------|---|---------|
| <b>Core Courses</b>              |   |         |
| 413-103                          | Commercial Driver's License (CDL) Preparation | 1       |
| 413-303                          | Pole Climbing Techniques                      | 3       |
| 413-304                          | Overhead Line Construction 1                  | 3       |
| 413-305                          | Overhead Equipment Installation 1             | 2       |
| 413-306                          | Maintenance and Troubleshooting 1             | 2       |
| 413-307                          | Electrical Theory and Safety 1                | 3       |
| 413-313                          | Underground Distribution                      | 2       |
| 413-314                          | Overhead Line Construction 2                  | 3       |
| 413-315                          | Overhead Equipment Installation 2             | 3       |
| 413-316                          | Maintenance and Troubleshooting 2             | 2       |
| 413-317                          | Electrical Theory and Safety 2                | 3       |
| <b>Technical Support Courses</b> |   |         |
| 801-310                          | Occupational Communication                    | 2       |
| 804-363                          | Occupational Math 4                           | 2       |
| 806-375                          | Applied Science                               | 2       |
| 809-300                          | Occupational Success Strategies               | 2       |
| 890-125                          | Student Success                               | 1       |
| Total                            |   | 36      |

An Electrical Power Distribution Exit Assessment (997-116) is a graduation requirement for this program.

A Commercial Driver's License Skill Test (413-403) is a graduation requirement for this program.

For course descriptions, please visit our Web site at [www.morainepark.edu](http://www.morainepark.edu).