

Utility Line Worker

A Middle College Program with York Technical College



For Students Who Enjoy

- working with their hands
- outdoors
- using hand and power tools

Possible Careers

Overhead Line Worker

Underground Line Worker

Courses Offered by Clover High School
however taught on the Floyd D. Johnson
Technology Center Campus

(transportation provided)

BCT 105: Tool Usage & Safety
ELW 110: Electrical Computations
ELW 112: Introduction to Electricity
ELW 114: Overhead Line Construction I
ELW 211: Underground Line Construction I
ELW 231: Electrical Power Systems

Work in this industry requires specialized training for working in and around underground and overhead utility installations including high voltage areas. [The 2016 median salary for a Utility Line Worker graduate is \\$40,656 per year.](#) Students will complete the Basic Line Worker Certificate. The Utility Line Worker Certificate is designed to prepare graduates for entry level jobs in telecommunications, infrastructure and electrical line roles.

The CHS Line Worker program is a component of the Middle College program. All line worker classes are taught on the Floyd D. Johnson Technology Center campus. Transportation to and from FDJTC will be provided by Clover School District transportation.

Basic Line
Worker
Certificate

Course Descriptions

Tool Usage & Safety (BCT 105) – 1 unit – Grade 12

Dual Enrollment: High School Credit plus College Credit through York Technical College;

Prerequisite: Prerequisite: Enrollment subject to SC high school diploma progress, York Technical college application, and a successful placement assessment score (3.0 high school GPA, Accuplacer, SAT/ACT).

This course covers tool skills and their safe use in construction. **The course is taught by York Technical College only; students will be provided Clover District transportation to and from classes.**

Electrical Computations (ELW 110) – 1 unit – Grade 12

Dual Enrollment: High School Credit plus College Credit through York Technical College;

Prerequisite: Prerequisite: Successful completion of Arc Welding 111.

This course introduces the fundamental applications of mathematics that are used by an electrical line technician. Topics include whole numbers, fractions, decimals, powers, roots, simple electrical formulas, and use of a scientific calculator. **The course is taught by York Technical College only; students will be provided Clover District transportation to and from classes.**

Introduction to Electricity (ELW 112) – 1 unit – Grade 12

Dual Enrollment: High School Credit plus College Credit through York Technical College;

Prerequisite: Successful completion of Arc Welding 111 and 113.

This course introduces the fundamental concepts of electricity and test equipment to non-electrical/electronic majors. Topics include basic DC and AC principles, components and operation of test equipment. **The course by taught at York Technical College only; students will be provided Clover District transportation to and from classes. [835100EH]**

Overhead Line Construction I (ELW 114) – 1 unit – Grade 12

Dual Enrollment: High School Credit plus College Credit through York Technical College;

Prerequisite: Successful completion of Welding and Cutting 104.

This course introduces the basics of overhead power line construction. Topics include safe work habits, protective equipment and pole climbing techniques. **The course is taught by York Technical College only; students will be provided Clover District transportation to and from classes. [835200EH]**

Underground Line Construction I (ELW 211) 1 unit—Grade 12

Dual Enrollment: High School Credit plus College Credit through York Technical College;

Prerequisite: Successful completion of Welding and Cutting 104.

This course introduces underground line distribution systems, including terminators, elbows, transformers, underground installations and safety practices. **The course is taught by York Technical College only; students will be provided Clover District transportation to and from classes.**

Electrical Power Systems (ELW 231) 1 unit—Grade 12

Dual Enrollment: High School Credit plus College Credit through York Technical College;

Prerequisite: Successful completion of Welding and Cutting 104.

This course examines the basic principles of electrical power systems, including transmission lines, generator and transformer characteristics, fault detection and correction, interpretation of line diagrams and performance of per-unit calculations for circuit performance analysis. **The course is taught by York Technical College only; students will be provided Clover District transportation to and from classes.**