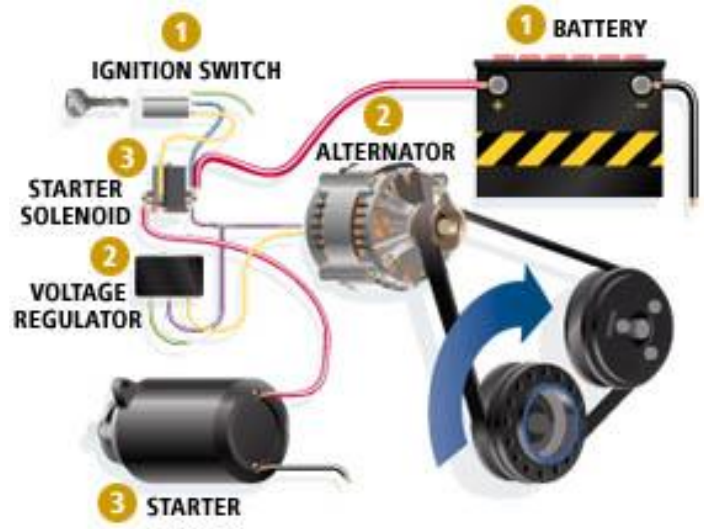


# Automotive Electrical Systems 120

This course is science, math, and shop combined!

The course covers:

- Workplace safety
- Tools, Wires, Connectors and Accessories
- Basic electrical theory
- Charging systems and starting systems
- Diagnostics and repair information systems



Students will learn through teacher directed lessons/notes, and handouts, CDX online learning modules, experiments/labs, and hands on experience. Assessment will be through worksheet/assignments, CDX worksheets and quizzes, tests, labs write-ups, and projects/presentations.

## Expectations:

1. Students will arrive to class on time and come prepared to work with pen/pencil and notebook.
2. Students will work cooperatively and use class time effectively. You share the responsibility to ensure that all tools and equipment are put away at the end of each class.
3. First priority is working safely. You need your own, safety glasses, work boots, coveralls and a safety focused attitude
4. Complete assignment on time and organize notes and handouts given by the teacher

## Assessment

Tests	40%
Assignments/Projects & Observations/Conversations (Care of work, Attitude about Safety and Tool Care)	40%
Exam	20%



## **Exam Exemptions:**

You can earn 1 exam exemption per semester by either:

- Maintaining an 85% average, all major assignments complete and be passing all courses (max 20 days absent).
- Or, missing 5 or less unexcused days (2 lates is an absence) and be passing all courses. Excuses have to be submitted within 5 days of absence.

**Attendance:** Attendance is very important! These are the guidelines for any student missing...

- 5 days for any reason (except extra-curricular): phone call home
- 10 days: letter home and students must start to “buy back days”
- 12 days: case conference with parents
- 15 days: letter to remind parents that at 20 days the credit may be revoked
- 20 days: ESS meeting to determine if credit will be revoked

## **Learning Outcomes:**

**GCO 1** Demonstrate the skills and knowledge required to prevent accidents

**GCO 2** Demonstrate an understanding and application of workplace Hazardous Materials Information System

**GCO 3** Demonstrate an understanding of ethical and legal responsibilities

**GCO 4** Identify, select and safely use tools and equipment required in the automotive industry

**GCO 5** Demonstrate proficiency in the use of automotive diagnostic tools

**GCO 6** Identify and interpret automotive information necessary for servicing a vehicle

**GCO 7** Demonstrate knowledge of electrical concepts and materials

**GCO 8** Identify and demonstrate an understanding of the function of starting systems and test procedures

**GCO 9** Identify and demonstrate an understanding of the function of charging systems and test procedures

**GCO 10** Identify the different careers and skills necessary for employment in the automotive industry