Basic Automotive Electricity Syllabus

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| **School Year:** | 2016-2017 | **H.S. Credits:** | 1 |
| **School Name:** | ACCTC | **Program:** | Automotive Technology |
| **Course Name:** | Basic Automotive Electricity | **Teacher:** | Todd Stamps |
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**Course Number(s) Course Name(s) Credits**

ADX 120 Automotive Electricity .5

ADX 121 Automotive Electricity Lab .5

**Prerequisite(s):** None

**Course Description**

This course will cover safety, theory and principles related to the design, and the operation of basic automotive electricity.

**Materials:**

**Textbook**: Modern Automotive Technology.

**Workbook:**  Modern Automotive Technology.

**Research Software:**  Mitchell Pro-Demand.

**Training Software:**  Todaysclass.com

**Magazines:**  Hot Rod Magazine

**Objectives**

* Students will perform starter current draw test and determine necessary action.
* Students will perform starter circuit drop tests and determine necessary action.
* Students will inspect and test starter relays and solenoids and determine necessary action.
* Students will remove and replace starter in a vehicle.
* Student will inspect and test switches, connectors, and wires of the starter control circuits and determine necessary action.
* Student will perform charging system output test.
* Student will inspect, adjust, or replace generator (alternator) drive belts and check pulleys and tensioners for wear
* Remove, inspect, and reinstall generator (alternator)

**Course Outline**

* Electrical Systems
* Electronic Systems
* Starting System
* Charging System

**Grading**

Grading Scale Grading Criteria

A 100-90 20% Written assignments

B 89-80 25% Daily performance grade by a rubric

C 79-70 30% Written and performance test

D 69-60 25% Final exam

F 59 and below

\*Courses with grades of less than a “C” will not count toward a certificate.

**Procedures for Makeup Work/Tests**

Missed work may be made up only if the absence is excused. All makeup work is the student’s responsibility to secure and turn within five school days after returning to class or no credit will be given. See student handbook for details.

**Supplies**

1. Closed Toe shoes (work boots or tennis shoes). No flip-flops are not allowed in the shop.
2. 1 inch blinder
3. Pencil and/ Pens

**Class expectations/Rules**

1. All rules in the student handbook will be enforced.
2. Be on time and in your seat when the bell rings.
3. No food or drink are allowed in class
4. Obey All shop and class safety rules.
5. Keep classroom and shop clean and in order.
6. If you open it, then close it. If you get tools out, then put them back!
7. Be respectful to the teacher and your fellow students.
8. NO HORSE PLAY!!

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Student Signature Date Parent/Guardian Signature Date

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Teacher Signature Date



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