

Mr. Jason Smith
Power Equipment Technology
Rock Hill Applied Technology Center
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803-981-1100

Syllabus:

Classroom Expectations:

- Come to class with a positive attitude and ready to learn
- **Bring essential materials this includes, but is not limited to computer (charged), writing utensil, note taking materials, proper personal protective equipment (pants, closed toed shoes preferably boots, safety glasses, no loose clothing or dangling jewelry, etc.)**
- Phone is only used at the discretion of the teacher. There will be times when you can use it.
- No horseplay: this is an agricultural mechanics laboratory with machinery that can hurt you. This will not be tolerated.
- No food in the room
- Drinks are allowed if they have a screw on lid that will keep the liquid in if it spills.
- Treat others and their property with RESPECT
- Have fun!

Grading: You will be graded on a variety of assignments, tests, quizzes and employability skills in this class. Late assignments will be accepted, but 5 points will be deducted per day the assignment is late. A Student may redo an assignment for a different score; this will be the average of the first grade and second grade. It is up to you to take charge of your grade and learning. You will get out of this class what you put into it.

Homework and projects

30%

Employability

30%

Tests and quizzes

30%

Final

10%

Scale:

Final

A 100-90

B 89-80

C 79-70

D 69-60

F 59 and below

Power Mechanics 1: Levels 1 and 2 may not be scheduled in the same year as levels 3 and 4. This course introduces students to basic small engines at a basic level. Students will learn the basic operation of an engine. Students will also learn the main basic parts of an engine. Safety in the lab and industry will also be taught.

Power Mechanics 2: Level 1 and 2 may not be scheduled in the same year as level 3 and 4. This course will cover both two and four cycle theory in the lab. Students will have more hands-on experience in this class small than level 1. Safety in the lab and industry along with safe tool usage will be taught. Students will receive training on both engines and equipment such as lawnmowers, tillers, chainsaws, trimmers and other outdoor equipment.

Power Mechanics 3 and 4: Power Equipment Technology 3 and 4 are paired as a year-long course. Level 1 and 2 may not be scheduled in the same year. This course will cover more complex equipment and engines in the lab. Students will work in groups on various projects during the year. Safety in the lab and industry along with safe tool usage will also be covered again. Students will receive training on both two and four-cycle engines and more training on chainsaw repairs. Overhead valve engines and training will be covered in more depth in this program. Students may be able to participate in cooperative learning or apprenticeships in this program.

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Standards:

- Work safety practices
- Identifying the operation of internal combustion engine systems
- Demonstrating skill in the service, repair, and maintenance of the fuel system
- Demonstrating skill in the service, repair, and maintenance of the ignition system
- Demonstrating skill in the service, repair, and maintenance of the exhaust system
- Demonstrating skills used in the overhaul of power equipment engines
- Demonstrating skills used in the servicing and repair of engine starters
- Demonstrating skills used in the servicing and repair of electrical systems
- Demonstrating skills used in servicing, maintaining, and replacing clutch and drive mechanisms
- Demonstrating skills used in ordering parts and materials and in maintaining records
- Demonstrating skills used in lawn and garden equipment repair
- Demonstrating skills used in chain saw repair
- Demonstrate basic engine care
- *Demonstrating skills used in outboard motor repair*