

Internal Combustion Engines (I.C.E.) 110

Course Outline



This course will consist of theory and practice related to engine operations, however, the prime goal is to learn safe working practices.

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 (WHMIS) symbols.
- **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 a proficiency in the use of fasteners.
- **GCO 6** Disassemble an engine and describe all components.
- **GCO 7** Demonstrate an understanding of the operating principles of the internal combustion engine.
- **GCO 8** Demonstrate proficiency of skills required to reassemble the internal combustion engine.
- **GCO 9** Identify careers and skills necessary for employment in the automotive industry.

Requirements in shop:

- CSA 94.3 or ANSI z87 Safety Glasses
- Reinforced Safety Boots
- Safety is the first priority!

Classroom:

- 3 Ring Binder

Classroom Rules:

- Drinks by light switch (no food)
- Don't talk while I'm talking
- Be in class and ready to work when the bell rings
- Respect classmates, teacher, equipment, and safety procedures

Course Evaluation:

The theory portion of the course will consist of classroom notes and discussion, bookwork/readings, and online learning at <http://gmcs.cdxauto.ca>. You will have your own account and password and can access your account anywhere you have internet access.

The practical assignments will consist of projects, labs, and challenges.

Assessment:

- | | | | |
|------------------------|-----|--------------|-----|
| • Practical/Worksheets | 35% | • Quizzes | 10% |
| • Tests | 35% | • Final 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.
- 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

Late for Class:

- Less than 5 minutes: after 3 offences, you’ll be required to serve a 30 minute detention
- More than 5 minutes late: double time will be served in detention
- 30 minutes or more, you’ll be marked absent