

# CTS Auto Mechanics 10      2021-2022

## Course Description

Through hands-on experiences, students will have the opportunity to increase their knowledge and skills related to the design and maintenance of transportation vehicles and the impact they have on the environment. Students will have the opportunity to complete five modules in the Mechanics Strand of Career & Technology Studies as outlined below.

Each module that is completed with a grade of 50% or higher will earn one credit for the student. The student must meet the standards specified for **ALL** module expectations within a module to be successful. Theory tests may be re-written provided the mark was at least 35%. Exceptions are made on a case-by-case basis and not guaranteed.

## Introductory 10 Modules

### **MECH 1015:      Mechanics Tools and Materials**

Students develop knowledge and skills and in the safe use of specialty hand tools, measuring tools and fasteners.

### **MECH 1020:      Service and Care**

Students develop the knowledge and skills to care for and service a motor vehicle.

### **MECH 1040:      Engine Fundamentals**

Students investigate and describe operating principles, construction and applications of engines.

### **MECH 1110:      Pneumatics and Hydraulics**

Students identify and describe the operating principles and applications of pneumatic and hydraulic systems.

### **MECH 1150:      Ride and Control**

Students identify and describe the operating principles and applications used to transmit and control mechanical energy in the above systems.

## Course Evaluation

All modules will be marked based on the identified competencies using the following percentages. Students will be shown module specific competencies before starting each module as well as the marking criteria.

Safety Test	5%
Tests	30%
Knowledge, Skills & Competencies	55%
APC (Attendance, Participation and Cooperation)	10%

**Note:** Any incomplete tests (rewrites) and/or projects not submitted within one week from the original due date will not be accepted and credit will not be given.

**\*\*\*\*\*Theory marks (30%) and the small safety test (5%) are often the only marks entered until late in the semester. Therefore the grade can change (up or down) as it only reflects work completed at that point. This is because the hands on components of the courses don't always follow a linear manner; we don't do one, finish it and then move on. We are often working on different components of different courses at the same time. Hence the Competencies mark is not entered until the end of the semester.**

## Materials Required (To be supplied by the student)

- Loose-leaf binder with paper
- Pen and pencil
- A pair of coveralls or smock
- (Optional) Safety shoes or boots

Students will be observed while working and must maintain a satisfactory rating in each of these categories in addition to module specific items:

- Responsible use of work time and materials
- Safety
- Understanding
- Achievement
- Skill
- Attitude toward instructor and peers
- Independence and problem solving
- Following instructions
- Care of working facility and tools

**Note:** In a practical course, it is very important that regular, punctual attendance is the rule. Students are expected to be here on time and ready to work.

Follow all safety rules and use personal safety devices whenever required.

*“Do not accept any unsafe behaviour. Remove any student who is acting in an unsafe manner, and ensure that he or she can operate safely before re-admittance.”*

Alberta Education 1998, Manual for Administrators, Counselors and Teachers, appendix 3/269.

A high standard of proper and safe behaviour must be maintained at all times in the shop area. Horseplay, teasing, bothering, mock fighting, interfering with others or their property, not following safety/shop rules or any other unsafe activity will be dealt with swiftly and severely.