



**DEPARTMENT OF AUTOMOTIVE SERVICE TECHNICIAN, PARTS & POWER
ENGINEERING**

COURSE OUTLINE

PARTS AND MATERIALS PRE EMPLOYMENT CERTIFICATE

SEMESTER 2 (WINTER 2014)

PM 2200 HEAVY DUTY PARTS IDENTIFICATION

17 (260 HOURS/16 WEEKS) 260 LECTURE

| | | | |
|----------------------|----------------------------------|----------------|----------------------|
| INSTRUCTOR: | Brian Carreau | PHONE: | 780-835-6631 - Brian |
| | Sandy Rendle | | 780-835-6760 - Sandy |
| OFFICE: | TIB 236 (Brian) | E-MAIL: | bcarreau@gprc.ab.ca |
| | TIB 224 (Sandy) | | srendle@gprc.ab.ca |
| OFFICE HOURS: | Monday to Friday 8:00AM – 4:00PM | | |

PREREQUISITE(S)/COREQUISITE:

English 20-1 or English 20-2 or equivalent

Math 20-1 or Math 20-2 or Math 20-3 or equivalent

A 20-level Science or equivalent

Although a high school diploma is not required for entrance to this program, students should be aware that some employers may require a High School Diploma as a prerequisite to employment.

Applicants who do not meet these requirements may be admitted to the program but

they will be required to pass the Apprenticeship & Industry Training (AIT) Trades Entrance Exam during the first semester, if choosing to pursue an apprenticeship.

REQUIRED TEXT/RESOURCE MATERIALS: Parts Technician Period 1 and 2 Apprenticeship ILM's. Students who have successfully completed the program and also completed an acceptable Alberta Apprenticeship Prior Learning Assessment (PLA) Application may have the opportunity to challenge the Alberta Apprenticeship and Industry Training first and second year Parts and/or Materials Technician apprentice exam. A fee is payable by the student to the Minister of Finance per PLA prior to challenging the exam.

CALENDAR DESCRIPTION: This theory course covers the identification and fundamental operation for parts and components relating to heavy equipment including trucks, off highway, agricultural, forestry, hydraulic systems and oil and gas applications. There is also a section on and the proper operation and management of tools cribs.

CREDIT/CONTACT HOURS: 14 Credits – 260 Contact Hours – 17 Hours per week

DELIVERY MODE(S): Instructor led classroom theory.

OBJECTIVES (OPTIONAL):

The program has been developed to provide students with entry level skills as a Parts and/or Materials Technician. After obtaining a requisite number of hours in the work force, the student would be eligible to continue with Alberta Apprenticeship and Industry training in the Parts and/or Materials Technician trade towards journeyman certification.

TRANSFERABILITY: ** This course is non-transferrable."

GRADING CRITERIA: A grade of 63% or higher is required to obtain credit for this course. Students must complete all required courses with a grade point average of no less than 2.0 and no failing (F) grades.

| GRANDE PRAIRIE REGIONAL COLLEGE | | | |
|---------------------------------|--------------------|-----------------------|---------------------------------|
| GRADING CONVERSION CHART | | | |
| Alpha Grade | 4-point Equivalent | Percentage Guidelines | Designation |
| A+ | 4.0 | 90 – 100 | EXCELLENT |
| A | 4.0 | 85 – 89 | |
| A- | 3.7 | 80 – 84 | FIRST CLASS STANDING |
| B+ | 3.3 | 77 – 79 | |
| B | 3.0 | 73 – 76 | GOOD |
| B- | 2.7 | 70 – 72 | |
| C+ | 2.3 | 67 – 69 | SATISFACTORY |
| C | 2.0 | 63 – 66 | |
| F | 0.0 | 60 – 62 | FAIL |
| F | 0.0 | 55 – 59 | |
| F | 0.0 | 50 – 54 | |
| F | 0.0 | 0 – 49 | |
| WF | 0.0 | 0 | FAIL, withdrawal after deadline |

EVALUATIONS: Obtain credit with a mark of 63%. AIT pass mark is 70%.

Attendance is to GPRC standards. Final mark will be comprised of 40% quizzes and 60% final exam.

STUDENT RESPONSIBILITIES:

Please refer to the Student Rights and Responsibilities policy in the Grande Prairie Regional College Calendar or at

www.gprc.ab.ca/downloads/documents/StudentRightsandResponsibilities.pdf

STATEMENT ON PLAGIARISM AND CHEATING:

Refer to the Student Conduct section of the College Admission Guide at

<http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at www.gprc.ab.ca/about/administration/policies/**

****Note:** all Academic and Administrative policies are available on the same page.

COURSE SCHEDULE/TENTATIVE TIMELINE:

HEAVY DUTY PARTS IDENTIFICATION 260 Hours

Identify and describe the principles of operation for major components in various heavy equipment, hydraulic applications. Areas covered will include heavy trucks, agricultural equipment, track equipment, off highway equipment, forestry equipment, and oil and gas equipment. *(245hrs)*

Identify tool crib operations and management and how tool cribs relate to parts and warehouse operations. *(15hrs)*