



**DEPARTMENT OF AUTOMOTIVE AND PARTS  
COURSE OUTLINE – WINTER 2011 SEMESTER B  
JANUARY 3 – MAY 4, 2012**

**HA 100 WELDING – 2 CREDITS 30 HOURS**

**INSTRUCTOR:** Fred Walkley      **PHONE:** 780.835.6719  
**OFFICE:** FTI 238      **E-MAIL:** FWalkley@GPRC.ab.ca

**OFFICE**      Monday through Friday.  
**HOURS:**      8:00 – 8:30 a.m. and 4:00 – 5:00 p.m.

**PREREQUISITE(S)/COREQUISITE:** None.

**REQUIRED TEXT/RESOURCE MATERIALS:**

Alberta Apprenticeship and Industry Training Individual Learning Modules\*:

- 090102 a      Oxyacetylene Heating and Cutting
- 090102 b      Gas Metal Arc Welding (GMAW) (MIG Welding)

\*Part of the AIT General Mechanics Module Package.

**CALENDAR DESCRIPTION:** This introductory course covers safe use of oxyacetylene equipment for heating, cutting, fusion welding and braze welding. An introduction to Gas Metal Arc (MIG) Welding is included in the course.  
Delivery Option – Fairview Campus Only

**CREDIT/CONTACT HOURS:** 2 credits; 1 week; 30 hours.

**DELIVERY MODE(S):** Instructor led; hands on.

## OBJECTIVES:

Upon completion of this course the student will be able to:

1. Demonstrate safe handling, operating and maintenance procedures for oxyacetylene and MIG welding equipment.
2. Perform basic oxyacetylene cutting, brazing and fusion welding procedures.
3. Perform the proper preparation of materials for basic oxyacetylene and MIG welding procedures.
4. Explain the purpose and selection of shielding fluxes and shielding gases.

**TRANSFERABILITY:** None.

**GRADING CRITERIA:** Students must complete all required courses with a grade point average of no less than 2.00 and no failing (F) grades. Course pass mark of 65% on blended theory and practical tests.

| GRANDE PRAIRIE REGIONAL COLLEGE |                    |                       |                                     |
|---------------------------------|--------------------|-----------------------|-------------------------------------|
| GRADING CONVERSION CHART        |                    |                       |                                     |
| Alpha Grade                     | 4-point Equivalent | Percentage Guidelines | Designation                         |
| A <sup>+</sup>                  | 4.0                | 90 – 100              | EXCELLENT                           |
| A                               | 4.0                | 85 – 89               |                                     |
| A <sup>-</sup>                  | 3.7                | 80 – 84               | FIRST CLASS STANDING                |
| B <sup>+</sup>                  | 3.3                | 77 – 79               |                                     |
| B                               | 3.0                | 73 – 76               | GOOD                                |
| B <sup>-</sup>                  | 2.7                | 70 – 72               |                                     |
| C <sup>+</sup>                  | 2.3                | 67 – 69               | SATISFACTORY                        |
| C                               | 2.0                | 65 – 66               |                                     |
| F                               | 0.0                | 60 – 64               | FAIL                                |
| F                               | 0.0                | 55 – 59               |                                     |
| F                               | 0.0                | 50 – 54               |                                     |
| F                               | 0.0                | 0 – 49                |                                     |
| WF                              | 0.0                | 0                     | FAIL, withdrawal after the deadline |

**EXAMINATIONS:** Written multiple choice exam 33% of grade; practical welding procedures 67% of grade.

## **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](http://www.gprc.ab.ca/downloads/documents/StudentRightsandResponsibilities.pdf).

## **STATEMENT ON PLAGIARISM AND CHEATING:**

Please refer to

[www.gprc.ab.ca/downloads/documents/Student%20Misconduct%20Plagiarism%20and%20Cheating.pdf](http://www.gprc.ab.ca/downloads/documents/Student%20Misconduct%20Plagiarism%20and%20Cheating.pdf) regarding plagiarism, cheating and the resultant penalties. These are serious issues and will be dealt with severely.

**COURSE SCHEDULE/TENTATIVE TIMELINE:** 30 hours; 1 week during Semester B.