



DEPARTMENT OF AUTOMOTIVE AND PARTS
COURSE OUTLINE – WINTER 2013 SEMESTER B
HA 100 WELDING – 2 CREDITS 30 HOURS

INSTRUCTOR: Fred Walkley **PHONE:** 780.835.6719
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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 ⁺	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 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.

STATEMENT ON PLAGIARISM AND CHEATING:

Please refer to

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.