



DEPARTMENT OF WELDING, CTO AND INSTRUMENTATION

COURSE OUTLINE – WINTER 2012 – FEBRUARY 27 – JUNE 22, 2012

ITW10 SAFETY, TOOLS, WELD FAULT AND OAW THEORY – 3.5 CREDITS 60 HOURS

INSTRUCTOR: TBA

PHONE: 780.835.6742

OFFICE: FM2-116

E-MAIL: BShmyruk@gprc.ab.ca

OFFICE HOURS: 8:00 a.m. – 4:30 p.m.

PREREQUISITE(S)/COREQUISITE: None.

REQUIRED TEXT/RESOURCE MATERIALS:

Alberta Apprenticeship and Industry Training Individual Learning Modules

First Year Modules Welder (WEL)

Optional Textbooks:

IPT's Metal Trades and Welding Handbook

Ronald G. Garby
ISBN -0920855199

Metals and How to Weld Them

Ted B. Jefferson

Other Required Supplies:

- approved protective clothing (footwear, coveralls, etc.)
- approved safety glasses
- two 3" ring binders
- welder's hat or beanie
- ear plugs
- pencils
- welder's gloves
- lock
- calculator (non-programmable, with square root function)

CALENDAR DESCRIPTION: This course covers the safety, tools, weld fault and oxy-acetylene welding (OAW) theory components of Alberta Apprenticeship Welder training, 1st Period.

CREDIT/CONTACT HOURS: 3.5 credits; 5 hours per week; 12 weeks; 60 hours.

DELIVERY MODE(S): Instructor led classroom theory.

OBJECTIVES (OPTIONAL): To ensure student is knowledgeable and competent in the following topics:

- Safety
- Tools
- Weld Fault
- Oxy-Acetylene Weld

TRANSFERABILITY: Not applicable.

GRADING CRITERIA:

Students must complete all required courses with a grade point average of no less than 2.00 and no failing (F) grades. A passing grade in this course is a minimum of 65%.

| 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 | 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 |

EVALUATIONS:

| Areas of Evaluation | Percentage of Total Course Mark |
|---------------------|---------------------------------|
| Attendance | 20% (2% per absence or late.) |
| Weekly Tests | 20% |
| Final Exam | 60% |

| Projects Evaluated Include: | |
|-----------------------------|-----------------------------|
| Cutting (OAC) | 2F Horizontal Lap Weld GMAW |
| 1G Flat Butt Weld GMAW | 3F Vertical Lap Weld FCAW |
| 3G Vertical Butt Weld GMAW | 1G Flat Butt Weld SMAW |
| 3F Vertical Lap Braze OAW | 2F Horizontal Lap Weld SMAW |
| 3G Vertical Butt Weld GMAW | 3F Vertical Lap Weld SMAW |

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.

ATTENDANCE REQUIREMENTS:

Lack of regular attendance will have a bearing on student evaluation. Regular attendance and punctuality in all courses is mandatory. Failure to maintain the necessary level of attendance may result in the offending student being withdrawn from the course. Certain unavoidable absences may be excused by the instructor. In such cases the student shall make every effort to inform the instructor prior to being absent. Absence from class must fall into the following categories to be excusable:

- Severe family or personal illness.
- Bereavement.
- Road/weather conditions.
- Pre-arranged or pre-approved absence (to be approved PRIOR to absence).

Students who accumulate 30 hours of absence within the program will be placed on academic probation. If attendance continues to be a problem, program staff will consider action on a case by case basis. Late entry to class will be considered 1.5 hours late.

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:

5 hours per week for 12 weeks – January 3rd to April 20th, 2012.