



DEPARTMENT OF WELDING, CTO AND INSTRUMENTATION

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

ITW17 SMAW LAB – 6 CREDITS 96 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 SMAW lab components of Alberta Apprenticeship Welder Training, 1st Period. Topics include: arc welding machines, selecting and installing welding machines, maintenance of welding machines, accessories for welding machines, basic electricity, machine controls, mild steel arc welding electrodes, basic joints, types of welds, welding symbols, and weld faults.

CREDIT/CONTACT HOURS: 6 credits; 8 hours per week; 12 weeks; 96 hours.

DELIVERY MODE(S): Workshop projects; procedures; instructor led; hands on.

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

- arc welding machines
- selecting and installing welding machines
- maintenance of welding machines
- accessories for welding machines
- basic electricity
- machine controls
- mild steel arc welding electrodes
- basic joints
- types of welds
- welding symbols
- weld faults

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:

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