



**DEPARTMENT OF POWER ENGINEERING  
COURSE OUTLINE – FALL 2014  
POF 407 PE4B1 POWER LAB – 0.5(0/0/4)20**

**INSTRUCTOR:** Barry Greaves                      **PHONE:** 780-835-6609  
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**OFFICE HOURS:** As Posted

**PREREQUISITE(S)/COREQUISITE: REQUIRED TEXT/RESOURCE MATERIALS:**

- Clipboard
- CSA class 3 steel toe boots
- Flame resistant coveralls
- Gloves
- Safety glasses

This lab will help the students work on the materials covered in the PE4B1 book. This will include working on heating boilers, heating systems, heating controls, Prime movers, Pumps and compressors and lubrication.

**CREDIT/CONTACT HOURS:**

Credits 0.5

Contact Hours 4 hours per week, 20 hours

**DELIVERY MODE(S):**

Labs

**OBJECTIVES (OPTIONAL):**

Dismantle pumps, compressors, and turbines. Experiment with lubricants, operate, dismantle and reassemble heating boilers.

**TRANSFERABILITY: As per ABSA requirements**

\*\* Grade of D or D+ may not be acceptable for transfer to other post-secondary institutions. Students are cautioned that it is their responsibility to contact the receiving institutions to ensure transferability

**GRADING CRITERIA:**

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
F	0.0	0 – 66	FAIL
WF	0.0	0	FAIL, withdrawal after the deadline

**EVALUATIONS:**

Method	Percentage	Minimum
Safety	20%	50%
Participation	20%	50%
Pumps and Compressors	20%	50%
Lubrricants & Bearing	20%	50%
Heating Boilers	20%	50%
Overall Grade	100%	67%
		67% average, with no mark below 50%

**STUDENT RESPONSIBILITIES:**

Students must complete all labs and assignments with no failing grades and a minimum of 67%, and attend 100% of all classes and labs to successfully complete this course. Other requirements as per Power Engineering Student Manual

**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/\\*\\*](http://www.gprc.ab.ca/about/administration/policies/**)

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

**COURSE SCHEDULE/TENTATIVE TIMELINE:**

Mid November to December