



Name: \_\_\_\_\_

ID#: \_\_\_\_\_

Date Created: \_\_\_\_\_

Date Revised: \_\_\_\_\_

## PROGRAM PLANNING GUIDE 2018 – 2019

### Power Engineering Technology Diploma

The purpose of this program-planning guide is to help students track their progress within their chosen program. The information in this planning guide is accurate at the time of printing and is subject to change without notice. It is the students' responsibility to ensure the accuracy of their program and course choice. Students should use the program-planning guide dated the year in which they began the program. This guide should be used in conjunction with the official version of the Medicine Hat College Calendar, and calendars of appropriate transfer institutions, which are the final authorities regarding program requirements.

#### Year One

BLOCK ONE – September 5, 2018 – November 16, 2018		
COURSE	DATE	GRADE
<i>PLAB 116 - First Lab</i>		
<i>PLAC 111 - Field Placement</i> <b>Prerequisite:</b> C- grade in PLAB 116 & POWE 161 & POWE 162 & POWE 163(or permission of the Dean) <u>and</u> valid First Aid with CPR, H2S Alive, and Confined Space Entry		
<i>POWE 161 – Introductory Mechanics &amp; Thermodynamics, Legislation and Safety</i>		
<i>POWE 162 – Introductory Electricity and Instrumentation, Materials, Welding and Safety</i>		
<i>POWE 163 - Introduction to Boilers, Environment, and Communication</i>		
BLOCK TWO – November 19, 2018 – February 27, 2019		
<i>PLAB 117 - Second Lab</i> <b>Prerequisite:</b> C- grade in PLAB 116		
<i>POWE 166 – Lubrication, Pumps, Compressor, Boiler Safety and Operation</i>		
<i>POWE 167 – Maintenance, Water Treatment, Prime Movers/Engines and Auxiliary Building Systems</i>		
<i>POWE 168 - Refrigeration &amp; Air Conditioning and Types of Plants</i>		
BLOCK THREE –February 28, 2019 - May 15, 2019		
<i>PLAB 118 - Third Lab</i> <b>Prerequisite:</b> C- grade in PLAB 117		
<i>POWE 151 - Intermediate Mechanics &amp; Thermodynamics</i> <b>Prerequisite:</b> C- grade in POWE 161		
<i>POWE 152 - Metallurgy</i> <b>Prerequisite:</b> C- grade in POWE 162		
<i>POWE 153 - Codes and Drawings</i>		
<i>POWE 154 - Intermediate Electricity &amp; Instrumentation</i> <b>Prerequisite:</b> C- grade in POWE 162		

For more information or assistance with your program, please contact  
Academic Advising at 403 529-3819

**Year Two**

<b>BLOCK FOUR – September 5, 2018 - December 21, 2018</b>		
<b>COURSE</b>	<b>DATE</b>	<b>GRADE</b>
<i>PLAB 219 – Fourth Lab</i> <b>Prerequisite:</b> C- grade in PLAB 118 (or PLAB 201 – in special circumstances ONLY) and ABSA Fourth Class Certificate of Competency (or other regulatory body equivalent certificate)		
<i>POWE 260 – Intermediate Boilers</i> <b>Prerequisite:</b> C- grade in POWE 143 or POWE 163		
<i>POWE 261 – Intermediate Prime Movers</i> <b>Prerequisite:</b> C- grade in POWE 146 or POWE 167		
<i>POWE 262 – Water Treatment Special Equipment</i> <b>Prerequisite:</b> C- grade in POWE 143 or POWE 167		
<b>BLOCK FIVE – January 3, 2019 – April 25, 2019</b>		
<i>POWE 265 – Advanced Boilers</i> <b>Prerequisite:</b> C- grade in POWE 260		
<i>POWE 266 – Advanced Pumps &amp; Water Treatment</i> <b>Prerequisite:</b> C- grade in POWE 262		
<i>POWE 270 – Advanced Codes</i> <b>Prerequisite:</b> C- grade in POWE 153		
<i>POWE 271 – Plant Installation &amp; Management</i>		
<i>POWE 272 – Advanced Mechanics</i> <b>Prerequisite:</b> C- grade in POWE 151		
<i>POWE 280 – Advanced Thermodynamics</i> <b>Prerequisite:</b> C- grade in POWE 151		
<i>POWE 281 – Advanced Metallurgy</i> <b>Prerequisite:</b> C- grade in POWE 152		

**CONTINUATION REQUIREMENTS:**

- Prerequisite grades must be C- or higher.

**GRADUATION REQUIREMENTS:**

- Obtain a minimum grade of C- in all POWE and PLAB courses
- Achieve mandatory 80% attendance of all POWE courses to write or pass the course final exams, regardless of the grade.
- Achieve mandatory 100% attendance in all lab courses (PLAB).

**NOTES:**

- PLAC 111(80 hour unpaid industrial work placement) is scheduled for the last two weeks of Block One of Year One.
  - Students are responsible for the cost of obtaining safety certification in Standard First Aid with CPR, H2S Alive, and Confined Space Entry *before* being eligible for PLAC 111 (Field Placement). Copies of these safety certificates must be on file with the PLAC 111 instructor by the date stated in the course outline.
- Current ABSA regulations:
  - Students may acquire a 4<sup>th</sup> class certificate after passing 4<sup>th</sup> class theory, completing the college-arranged field placement, and passing the ABSA 4<sup>th</sup> class exams.
  - Students are required to **independently** find three months of “Steam Time”, complete the two-year college program, and pass the ABSA 3<sup>rd</sup> class exam before a 3<sup>rd</sup> class certificate is awarded. 2<sup>nd</sup> class ABSA exams can be written after being awarded a 3<sup>rd</sup> class certificate.