



Name: _____

ID#: _____

Date Created: _____

Date Revised: _____

PROGRAM PLANNING GUIDE 2019-2020

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 - November		
COURSE	DATE	GRADE
<i>PLAC 111 - Field Placement</i> Prerequisite: PLAB 116 & POWE 161 & POWE 162 & POWE 163(or permission of the Dean) and valid First Aid with CPR, H2S Alive, and Confined Space Entry		
<i>PLAB 116 - First Lab</i> Prerequisite: Acceptance into the Power Engineering Technology program		
<i>POWE 161 – Introductory Mechanics & Thermodynamics, Legislation and Safety</i> Prerequisite: Acceptance into the Power Engineering Technology program		
<i>POWE 162 – Introductory Electricity and Instrumentation, Materials, Welding and Safety</i> Prerequisite: Acceptance into the Power Engineering Technology program		
<i>POWE 163 - Introduction to Boilers, Environment, and Communication</i> Prerequisite: Acceptance into the Power Engineering Technology program		
BLOCK TWO: December - February		
<i>PLAB 117 - Second Lab</i> Prerequisite: PLAB 116		
<i>POWE 166 – Lubrication, Pumps, Compressor, Boiler Safety and Operation</i> Prerequisite: Acceptance into the Power Engineering Technology program		
<i>POWE 167 – Maintenance, Water Treatment, Prime Movers/Engines and Auxiliary Building Systems</i> Prerequisite: Acceptance into the Power Engineering Technology program		
<i>POWE 168 - Refrigeration & Air Conditioning and Types of Plants</i> Prerequisite: Acceptance into the Power Engineering Technology program		
BLOCK THREE: February - May		
<i>PLAB 118 - Third Lab</i> Prerequisite: PLAB 117		
<i>POWE 151 - Intermediate Mechanics & Thermodynamics</i> Prerequisite: POWE 161		
<i>POWE 152 - Metallurgy</i> Prerequisite: POWE 162		
<i>POWE 153 - Codes and Drawings</i> Prerequisite: Acceptance into the Power Engineering Technology program		

POWE 154 - Intermediate Electricity & Instrumentation Prerequisite: POWE 162		
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Year Two

BLOCK FOUR: September - December		
COURSE	DATE	GRADE
PLAB 219 – Fourth Lab Prerequisite: PLAB 118 (or PLAB 201 – in special circumstances ONLY) and ABSA Fourth Class Certificate of Competency (or other regulatory body equivalent certificate)		
POWE 260 – Intermediate Boilers Prerequisite: POWE 143 or POWE 163		
POWE 261 – Intermediate Prime Movers Prerequisite: POWE 146 or POWE 167		
POWE 262 – Water Treatment Special Equipment Prerequisite: POWE 143 or POWE 167		
BLOCK FIVE: January - April		
POWE 265 – Advanced Boilers Prerequisite: POWE 260		
POWE 266 – Advanced Pumps & Water Treatment Prerequisite: POWE 262		
POWE 270 – Advanced Codes Prerequisite: POWE 153		
POWE 271 – Plant Installation & Management Prerequisite: Acceptance into the Power Engineering Technology program		
POWE 272 – Advanced Mechanics Prerequisite: POWE 151		
POWE 280 – Advanced Thermodynamics Prerequisite: POWE 151		
POWE 281 – Advanced Metallurgy Prerequisite: 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 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 4th class certificate after passing 4th class theory, completing the college-arranged field placement, and passing the ABSA 4th class exams.
 - Students are required to **independently** find three months of “Steam Time”, complete the two-year college program, and pass the ABSA 3rd class exam before a 3rd class certificate is awarded. 2nd class ABSA exams can be written after being awarded a 3rd class certificate.

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

Last Updated March 31, 2019