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Date Created:	
Date Revised:	

PROGRAM PLANNING GUIDE 2022-2023 Power Engineering Technology <u>Diploma</u>

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
PLAC 111 Work Practicum		
Prerequisite: PLAB 116 & POWE 161 & POWE 162 & POWE 163 or permission of the Dean		
AND must possess valid First Aid with CPR and WHMIS		
PLAB 116 First Lab		
Prerequisite: Acceptance into the Power Engineering Technology Program		
POWE 161 Introductory Mechanics & Thermodynamics, Legislation and Safety		
Prerequisite: Acceptance into the Power Engineering Technology Program		
POWE 162 Introductory Electricity and Instrumentation, Materials, Welding and Safety		
Prerequisite: Acceptance into the Power Engineering Technology Program		
POWE 163 Introductions to Boilers, Environment, Communication		
Prerequisite: Acceptance into the Power Engineering Technology Program		
BLOCK TWO: December – February		
COURSE	DATE	GRADE
PLAB 117 Second Lab		
Prerequisite: PLAB 116		
POWE 166 Lubrication, Pumps, Compressor, Boiler Safety and Operation		
Prerequisite: Acceptance into the Power Engineering Technology Program		
POWE 167 Maintenance, Water Treatment, Prime Movers / Engines and Auxiliary		
Building Systems		
Prerequisite: Acceptance into the Power Engineering Technology Program		
POWE 168 Refrigeration & Air Conditioning and Types of Plants		
Prerequisite: Acceptance into the Power Engineering Technology Program		
BLOCK THREE: February – May		
COURSE	DATE	GRADE
PLAB 118 Third Lab		
Prerequisite: PLAB 117 & ABSA Fourth Class Certificate of Competency (or other		
regulatory body equivalent certificate)		
POWE 151 Intermediate Mechanics & Thermodynamics		
Prerequisite: POWE 161		
POWE 152 Metallurgy		
Prerequisite: POWE 162		
POWE 153 Codes & Drawings		

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

Prerequisite: Acceptance into the Power Engineering Technology Program	
POWE 154 Intermediate Electricity & Instrumentation	
Prerequisite: POWE 162	

Year Two

BLOCK FOUR: September – December				
COURSE	DATE	GRADE		
PLAB 219 Fourth Lab				
Prerequisite: PLAB 118 or PLAB 201 (in special circumstances ONLY) & ABSA Fourth Class				
Certificate of Competency (or other regulatory body equivalent certificate)				
POWE 260 Intermediate Boilers				
Prerequisite: POWE 143 or POWE 163, and POWE 166				
POWE 261 Intermediate Prime Movers				
Prerequisite: POWE 146 or POWE 167, and POWE 166				
POWE 262 Water Treatment & Special Equipment				
Prerequisite: POWE 143 or POWE 167, and POWE 166 and POWE 168				
BLOCK FIVE: January – April				
COURSE	DATE	GRADE		
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).

Program 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 cost of obtaining safety certification in Standard First Aid with CPR and WHMIS *before* being eligible for PLAC 111 (Work Practicum). 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 and labs, 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 exams before a 3rd class certificate is awarded.
 - \circ 2nd class ABSA exams can be written after being awarded 3rd class certificate.