

POWER TECHNOLOGY O.E.

Juneau

Options include Diesel/Heavy Duty, and Diesel/Marine with an option for engine room preparation, Fixed Plant and Mine Mechanic. Each provides technical courses in the appropriate specialty. Students must earn a 2.00 GPA in the overall program. These occupational endorsements articulate with the A.A.S. in Power Technology.

The Fixed Plant Mechanic Occupational Endorsement prepares the student to enter

into the stationary mechanic industry as an entry level fixed plant mechanic.

The program includes classroom and hands-on training on the following mechanical

systems: lubrication, preventive maintenance inspections, diesel engines, hydraulics, welding, blue print reading, precision measuring tools, rigging, conveyor belts and shaft alignment.

The Mine Mechanic Occupational Endorsement prepares the student to enter into the mining industry as an entry level diesel machinery mechanic. The program includes classroom and hands-on training on diesel engines and related mechanical systems including engines, transmissions, brakes, hydraulics, DC electrical, suspension, and air conditioning. Diesel powered pickups, welding, preventive maintenance and inspections are also included.

Introduction to Mining Occupations and Operations and the **Hecla Greens Creek Mine Academy** or Department approval is recommended. Minimum grade of C or better 2.00 is required in all (each) of the classes to obtain the Mine Mechanic O.E.

Diesel/Heavy Duty Emphasis

Requirement		Hours
Minimum Credit Hours		29
Code	Title	Credits
DESL S102	Lubrication, Preventative Maintenance, and Inspections	2
DESL S110	Diesel Engines	6
DESL S121	Basic Electrical Systems	3
DESL S125	Basic Hydraulics	3
DESL S130	Refrigeration and Air Conditioning	2
DESL S180	AC Power Generation	3
DESL S250	Heavy Duty Brakes and CDL Preparation	2
DESL S255	Heavy Duty Suspension and Alignment	2
DESL S260	Heavy Duty Power Trains	3
WELD S120	Basic Welding	3
Total Credits		29

Diesel/Marine Emphasis

Requirement		Hours
Minimum Credit Hours		28
Code	Title	Credits
DESL S110	Diesel Engines	6
DESL S121	Basic Electrical Systems	3
DESL S125	Basic Hydraulics	3
DESL S130	Refrigeration and Air Conditioning	2
DESL S180	AC Power Generation	3
DESL S261	Marine Auxiliary Systems	3
DESL S262	Marine Auxiliary Systems Lab	2
DESL S263	Marine Transmissions	3
WELD S120	Basic Welding	3
Total Credits		28

Fixed Plant Mechanic Emphasis

Requirement		Hours
Minimum Credit Hours		27
Code	Title	Credits
DESL S102	Lubrication, Preventative Maintenance, and Inspections	2
DESL S110	Diesel Engines	6
DESL S125	Basic Hydraulics	3
DESL S140	Construction Drawing Interpretation	3
DESL S141	Precision Measuring Tools	2
DESL S142	Piping Systems	3
DESL S143	Industrial Rigging Principles	2
DESL S144	Conveyor and Drive Systems	3
WELD S120	Basic Welding	3
Total Credits		27

Marine Engine Room Preparation Emphasis

Requirement		Hours
Minimum Credit Hours		28
Code	Title	Credits
DESL S110	Diesel Engines	6
DESL S121	Basic Electrical Systems	3
DESL S130	Refrigeration and Air Conditioning	2
DESL S161	Applied Marine Hydraulics	1
DESL S180	AC Power Generation	3
DESL S261	Marine Auxiliary Systems	3
DESL S262	Marine Auxiliary Systems Lab	2
DESL S263	Marine Transmissions	3
MTR S129	Basic Training	2

WELD S120	Basic Welding	3
Total Credits		28

Mine Mechanic Emphasis

Requirement	Hours
Minimum Credit Hours	29

Code	Title	Credits
DESL S102	Lubrication, Preventative Maintenance, and Inspections	2
DESL S110	Diesel Engines	6
DESL S121	Basic Electrical Systems	3
DESL S125	Basic Hydraulics	3
DESL S130	Refrigeration and Air Conditioning	2
DESL S225	Advanced Hydraulics	3
DESL S250	Heavy Duty Brakes and CDL Preparation	2
DESL S255	Heavy Duty Suspension and Alignment	2
DESL S260	Heavy Duty Power Trains	3
WELD S120	Basic Welding	3
Total Credits		29