

Diesel/Hydraulics (Power)

Career Cluster Description: The fundamentals of fluid power and details on the design and operation of hydraulic and pneumatic components, circuits, and systems. Extensive coverage is provided for both hydraulic and pneumatic systems.							
Major Options		Mechanic	Industrial Hydraulics	Engineering	Hydraulic Technician		
Grade 9		Grade 10		Grade 11		Grade 12	
S1	S2	S1	S2	S1	S2	S1	S2
English 1	English 1	English 2	English 2	English Elective	English Elective	English Elective	English Elective
Physical Science	Physical Science	Biology	Biology	Science Elective	Science Elective	Science Elective	Science Elective
Civics	Health	World History	World History	U.S. History	U.S. History	U.S. Govern.	AK History
Algebra I	Algebra I	Geometry	Geometry	Algebra 2	Algebra 2	<i>Advanced Math</i>	<i>Advanced Math</i>
P.E.	P.E.	Elective	Elective	Hydraulics/Pneumatics	Hydraulics/Pneumatics	Diesel Power	Diesel Power
Customer Service	Intro to Career Pathways	Elective	Elective	Instrumentation	Instrumentation	Elective	Elective
Elective	Technology Applications 1*	Intro to Auto or Small Engines 1	Auto Services Tech 1* or Small Engines 2	Industrial Safety & First Aid	Elective	Elective	Elective
Work-Based Learning Opportunities				Career-Technical Student Organizations (CTSO)		Certifications	
<ul style="list-style-type: none"> Apprenticeship Cooperative Education Job Shadowing 		<ul style="list-style-type: none"> Paid/Unpaid Internship School-Based Enterprise Service Learning 		Skills USA		<ul style="list-style-type: none"> 	

POSTSECONDARY OPTIONS

Two-Year College or Proprietary Programs	Adult Registered Apprenticeships	Four-Year College and University Programs	Certifications	Licenses, On The Job Training, Training Certificates, etc.
	Department of Labor and Workforce Development, Office of Apprenticeship, email apprenticeship@alaska.gov or your local Alaska Job Center staff who will help you identify apprenticeable occupations and help you prepare for your future. You may also call (877) 724-2539			

*College Credits may be available. [Click here for details.](#)