DIESEL/HEAVY EQUIPMENT

College of Rural and Community Development Community and Technical College 907-455-2809 www.ctc.uaf.edu/programs/diesel/

Certificate

Minimum Requirements for Certificate: 36 credits

The diesel and heavy equipment mechanics program offers the student training in the maintenance and repair of trucks, buses and heavy equipment. This one-year certificate program emphasizes hands-on training and in-class experience as students perform preventive maintenance inspections, determine causes of equipment problems and make necessary repairs and adjustments from tune-ups to complete engine and equipment overhauls. Students work on large truck fuel, electrical and air systems, diesel engines, transmissions, differentials, crawler tractor undercarriages, steering and final drives. A student may request credit by examination for any DSLT or MECN class. See department coordinator for details.

Certificate Program

- 1. Complete the general university requirements (page 95).
- Complete the certificate requirements. (See page 97. As part of the certificate requirements, the communication, human relations, and computation content is embedded in the major required courses for this program.)

3.	Complete the following program (major) requirements:*	
	DSLT F101—Safety Including Rigging and Lifting	1
	DSLT F103—Basic Equipment and Truck Operation	1
	DSLT F105—Preventive Maintenance	3
	DSLT F107—Basic Electrical Systems and Electrical	
	Fuel Injection	3
	DSLT F110—Basic Industrial Fabrication	2
	DSLT F111—Diesel Emissions	2
	DSLT F123—Heavy Duty Braking Systems	3
	DSLT F154—Diesel Fuel Injection	
	DSLT F201—Manual Transmissions and Differentials	3
	DSLT F202—Heavy Duty Automatic Transmissions	2
	DSLT F210—Heavy Equipment Fabrication	2
	DSLT F254—Engine	
	MECN F103—Starting and Charging Systems	3
	MECN F210—Hydraulics	3
4	Minimum credits required	36



Certificate Requirements

Communication			
Complete one of the following: • ENGL F111X—Introduction to Academic Writing			
Computation2 – 3 Credits			
Complete one of the following: • Any course at the F100-level or above in mathematical sciences (computer science, math or statistics)			
Human Relations2 – 3 Credits			
Complete one of the following: • ANTH F100X/SOC F100X—Individual, Society and Culture(s)			
Electives to total			

Associate of Applied Science Requirements

• •	ritten Communication
•	ENGL F111X—Introduction to Academic Writing(3)
•	omplete one of the following: ABUS F271—Business Communications
O	ral Communication
•	omplete one of the following: COMM F131X—Fundamentals of Oral Communication: Group Context(3) COMM F141X—Fundamentals of Oral Communication: Public Context(3) or successful completion of competency test
C	omputation3 Credits
•	Implete one of the following: Any course at the F100-level or above in mathematical sciences (computer science, math or statistics)
H	uman Relations
•	omplete one of the following: ANTH F100X/SOC F100X—Individual, Society and Culture (s)
	ajor specialty at least
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