

# Diesel/Heavy Equipment

College of Rural and Community Development  
Tanana Valley Campus  
907-455-2809  
www.tvc.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 form 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 86).
2. Complete the certificate requirements (page 88). As part of the certificate requirements, the computation content is embedded in the major required courses for this program.
3. Complete the following program (major) requirements:

DSLTL F101—Safety Including Rigging and Lifting .....	1
DSLTL F103—Basic Equipment and Truck Operation.....	1
DSLTL F105—Preventive Maintenance.....	3
DSLTL F107—Basic Electrical Systems and Electrical Fuel Injection	3
DSLTL F123—Heavy Duty Braking Systems .....	3
DSLTL F154—Diesel Fuel Injection.....	3
DSLTL F201—Manual Transmissions and Differentials.....	3
DSLTL F202—Heavy Duty Automatic Transmissions.....	2
DSLTL F254—Engines .....	5
MECN F103—Starting and Charging Systems .....	3
MECN F210—Hydraulics.....	3
WMT F103—Welding I.....	3
WMT F105—Welding II.....	3
4. Minimum credits required.....36