**DSLT F101  Safety Including Rigging and Lifting**
1 Credit
Offered Fall
This course is an introduction to working safely in a shop environment. Discussions and practical exercises cover the proper use of personal protective gear and air ventilation systems; identifying harmful chemicals and interpreting Safety Data Sheets; procedures for lifting heavy items; use of power and hand tools.

**Grading System:** Letter Grades with option of Plus/Minus

**Prerequisites:** DSLT F101; DSLT F103.

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**DSLT F102  Basic Equipment and Truck Operation**
1 Credit
Offered Fall
Basic operation of heavy equipment and diesel trucks to include: stating, clutching, braking, and steering procedures. Basic forklift operation to include: lifting weight, calculation and point of balance of machine versus lifting load.

**Grading System:** Letter Grades with option of Plus/Minus

**Prerequisites:** DSLT F101; DSLT F103.

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**DSLT F103  Preventive Maintenance**
3 Credits
Offered Fall
Perform scheduled preventive maintenance on vehicles and heavy equipment. Gain knowledge of lubricants, filters, lubrication points and proper fluid levels and understanding of what to look for when performing a visual inspection.

**Grading System:** Letter Grades with option of Plus/Minus

**Prerequisites:** DSLT F101; DSLT F103.

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**DSLT F104  Basic Electrical Systems**
3 Credits
Offered Fall
Basic electrical theory and DC voltage and amperage is followed by testing procedures, when testing high pressure diesel injection pumps and injectors; removing, installing and adjusting common systems used in the heavy truck/equipment industry.

**Grading System:** Letter Grades with option of Plus/Minus

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**DSLT F105  Basic Industrial Fabrication**
2 Credits
Offered Fall
Students will learn the concepts of industrial fabrication. When working with heavy equipment, things can break. This class will teach the basics of how to fabricate and repair heavy equipment in and out of the field using various techniques.

**Grading System:** Letter Grades with option of Plus/Minus
DSLT F210  Heavy Equipment Fabrication
2 Credits
Offered Spring
Students will learn advanced concepts of industrial fabrication in the
maintenance of heavy duty equipment, develop a strong understanding
of metals and their applications, and have the ability to bend, heat, and
apply welding techniques that will support heavy duty equipment for long
term use.
Prerequisite: Department or Instructor approval is required.
Lecture + Lab + Other: 1 + 2 + 0
Grading System: Letter Grades with option of Plus/Minus

DSLT F254  Engine
6 Credits
Offered Spring
Theory and operation of the two-cycle and four-cycle diesel engine
injection and combustion process. Operation and maintenance of
internal components and systems including tune-ups and fuel system
troubleshooting, culminating in disassembly and reassembly of a large
bore diesel engine commonly found in heavy trucks or heavy equipment.
Prerequisites: DSLT F101; DSLT F103; DSLT F105.
Lecture + Lab + Other: 2.5 + 6.5 + 0
Grading System: Letter Grades with option of Plus/Minus