



## Certificate— Heavy Diesel Construction Technology to an Associate of Science— Industrial Technology

### At Washburn Tech:

#### Certificate Program:

##### Heavy Diesel Construction Technology

- DEM111 Shop Skills & Safety Fundamentals
- DEM113 Electrical/Electronic Systems
- DEM116 Workplace Skills
- DEM123 Hydraulics
- DEM142 Welding for Diesel
- DEM144 Brakes for Construction
- DEM150 EST Diagnostics
- DEM204 Advanced Machine Electrical
- DEM221 Drive Trains
- DEM224 Advanced Hydraulic Systems
- DEM231 Diesel Engines I
- DEM241 Advanced Diesel Engines
- DEM244 Heavy Equipment Operation
- DEM250 Engine Performance
- DEM252 Power Trains for Construction
- DEM268 Auxiliary Power Units/Refrigeration
- DEM274 Diesel Prev. Maintenance
- IND105 OSHA-10

### At Washburn University:

#### Associate of Science-Major:

##### Industrial Technology

- TA 210 Tech Survey
- MA 112 Contemporary College Mathematics\*  
OR MA 116 College Algebra\*
- EN 101 First Year Writing
- WU 101 The Washburn Experience\*\*
- General Education Humanities (6 hours)
- General Education Natural Science (3 hours)
- General Education Social Science (6 hours)

#### AS Degree Requirements

- Minimum 15 credit hours of required coursework must be taken at Washburn
- Student must be concurrently enrolled in 12 hrs at WUTech or have already completed one of the approved WUTech certificates
- Must start at WU within 6 years of WUTech certificate completion

### Additional Notes:

- Check with your advisor at Washburn Tech or in the School of Applied Studies at Washburn University for assistance in building your course schedule each term.
- Reduced tuition rate at Washburn University only applies to the required Associate of Science courses
- \* Please note the following regarding MA 112 and MA116:
  - \* MA 112 requires a ACT Score of 18 or higher on the Math component, MA 112 Placement Exam Score of 50% or higher, or MA 090 with a “B” or better.
  - \* MA 116 requires a ACT Score of 22 or higher on the Math component, MA 116 Placement Exam Score of 75% or higher, or MA 095 with a “B” or better.

\*\* *Students transferring with 30 or more credit hours completed at an accredited post-secondary institution (after graduating from High School) with a GPA of 2.0 or higher are exempt from this requirement.*