

Level Chart: Heavy Duty Equipment Technician - Technical Training

| Level One (8 Weeks) – COMMON CORE UNITS | | | | Level Two (8 Weeks) | | | |
|---|---|------------------|------------|---------------------|---------------------------------------|------------------|------------|
| Code | Unit Title | T | P | Code | Unit Title | T | P |
| A1 | Learning About Work | 7 | 0 | B1 | Welding II | 7 | 21 |
| A2 | Trade Safety Awareness | 7 | 0 | B2 | Starting and Charging Systems | 7 | 28 |
| A3 | Tools and Equipment | 7 | 21 | B3 | Engines and Engine Support Systems I | 21 | 49 |
| A4 | Trade Communications, Documents and Computer Skills | 21 | 0 | B4 | Powertrain Fundamentals | 7 | 42 |
| A5 | Engine Principles | 7 | 28 | B5 | Electronics I: Fundamentals | 7 | 21 |
| A6 | Electrical Fundamentals | 14 | 56 | B6 | Differentials, Drive Axles and Tracks | 14 | 35 |
| A7 | Braking Systems and Wheel-End Safety | 12 | 23 | B7 | Steering Systems | 14 | 7 |
| A8 | Hoisting and Lifting | 2 | 5 | | | | |
| A9 | Basic Hydraulic Systems | 7 | 14 | | | | |
| A10 | Frames, Suspensions and Structural Components | 14 | 0 | | | | |
| A11 | HVAC and Environmental Controls I | 7 | 0 | | | | |
| A12 | Welding I | 7 | 21 | | | | |
| | Subtotals | 112 | 168 | | Subtotals | 77 | 203 |
| | Total | 280 hours | | | Total | 280 hours | |

| Level Three (7 Weeks) | | | | Level Four (5 Weeks) | | | |
|-----------------------|---|------------------|------------|----------------------|---|------------------|-----------|
| Code | Unit Title | T | P | Code | Unit Title | T | P |
| C1 | Engines and Engine Support Systems II: Combustion Science/Emission Controls | 21 | 14 | D1 | Journeyman Trainer | 7 | 0 |
| C2 | Engines and Engine Support Systems III: Diesel Fuel Systems | 35 | 35 | D2 | Electronics II: Automated Machine Control | 21 | 35 |
| C3 | Alternate Fuels | 7 | 0 | D3 | Hydraulic Testing and Diagnostics | 7 | 21 |
| C4 | HVAC and Environmental Controls II | 7 | 28 | D4 | Hydrostatic Testing and Diagnostics | 7 | 14 |
| C5 | Hydraulics Service and Repair | 7 | 28 | D5 | Cabs and Protective Structures | 7 | 7 |
| C6 | Powertrains II: Heavy Duty Transmissions | 14 | 35 | D6 | Material Handling and Ground Engaging Tools | 7 | 7 |
| C7 | Spark Ignition Systems | 7 | 7 | D7 | Pre-Interprovincial Review | 35 | 0 |
| | Subtotals | 98 | 147 | | Subtotals | 91 | 84 |
| | Total | 245 hours | | | Total | 175 hours | |

T – Theory hours
P – Practical hours