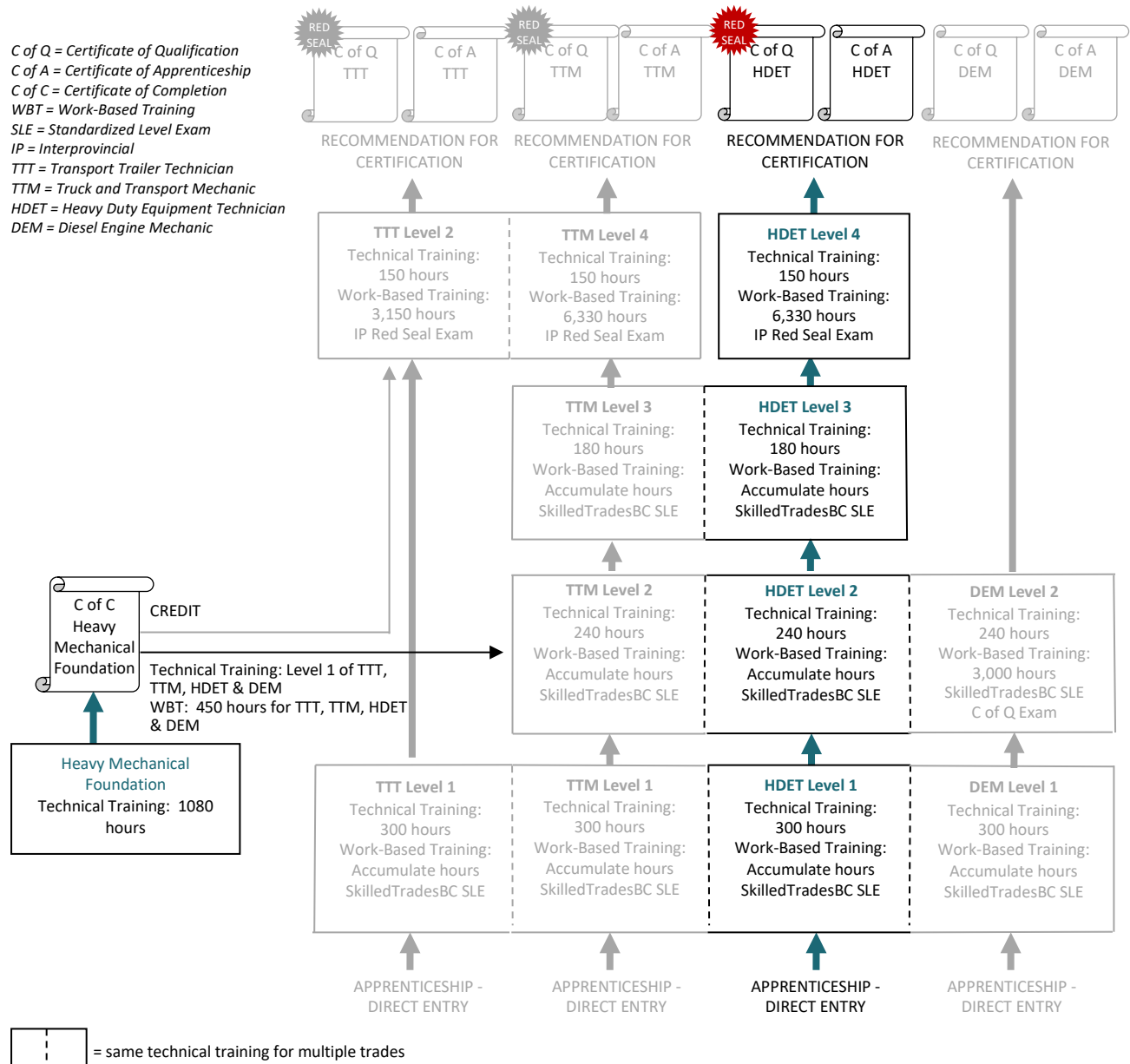


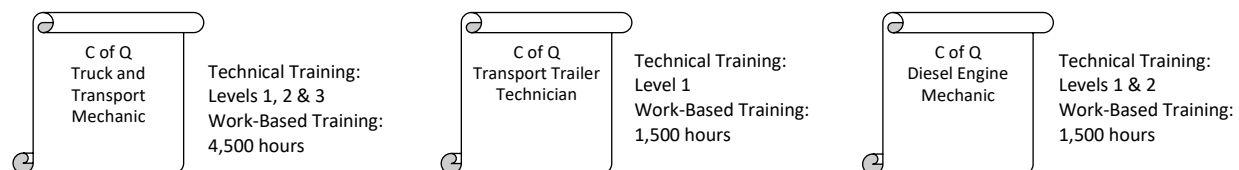
Program Credentialing Model

This graphic provides an overview of the Heavy Duty Equipment Technician apprenticeship pathway.



CROSS-PROGRAM CREDITS

Individuals who hold the credentials listed below are entitled to receive partial credit toward the completion requirements of this program



Training Topics and Suggested Time Allocation

HEAVY DUTY EQUIPMENT TECHNICIAN – LEVEL 1

		% of Time Allocated to:			
		% of Time	Theory	Practical	Total
Line A	PERFORM OCCUPATIONAL SKILLS	18%	55%	45%	100%
A1	Use safe work practices		✓	✓	
A2	Implement hybrid and electric vehicle (EV) safety protocols		✓	✓	
A3	Use hand tools, power tools, and shop equipment		✓	✓	
A4	Use fasteners and fittings		✓	✓	
A5	Lift and support loads		✓	✓	
A6	Operate equipment		✓	✓	
A7	Use documentation and reference materials		✓	✓	
A8	Service bearings and seals		✓	✓	
A9	Select and maintain lubricants		✓	✓	
A10	Use cutting and welding equipment		✓	✓	
A11	Describe diagnostic procedures		✓		
Line B	SERVICE, DIAGNOSE, AND REPAIR BRAKES	17%	40%	60%	100%
B1	Service and repair hydraulic brakes and parking brakes		✓	✓	
B2	Service and repair hydraulic power brakes and ABS systems		✓	✓	
B3	Service and repair air brakes		✓	✓	
Line C	SERVICE, DIAGNOSE, AND REPAIR HYDRAULICS	14%	60%	40%	100%
C1	Service hydraulic components		✓	✓	
Line D	SERVICE, DIAGNOSE, AND REPAIR ELECTRICAL AND ELECTRONIC SYSTEMS	19%	55%	45%	100%
D1	Describe electricity		✓		
D2	Use electrical testing instruments		✓	✓	
D3	Service, diagnose, and repair battery systems		✓	✓	
D4	Service starting and charging systems		✓	✓	
D5	Service electrical circuits		✓	✓	
Line E	SERVICE, DIAGNOSE, AND REPAIR FRAMES, STEERING, AND SUSPENSION	15%	50%	50%	100%
E1	Service, diagnose, and repair tires, wheels, and hubs		✓	✓	
E2	Service steering systems		✓	✓	
E3	Service, diagnose, and repair suspension systems		✓	✓	
E4	Service undercarriage systems		✓	✓	
E5	Service, diagnose, and repair frames		✓	✓	
Line F	SERVICE, DIAGNOSE, AND REPAIR TRAILERS	8%	35%	65%	100%
F1	Service, diagnose, and repair landing gear and trailer accessories		✓	✓	
F2	Service, diagnose, and repair coupling systems		✓	✓	
F3	Service, diagnose, and repair trailer body components		✓	✓	

		% of Time Allocated to:			
		% of Time	Theory	Practical	Total
F4	Service heating and refrigeration systems		✓	✓	
Line G	SERVICE, DIAGNOSE, AND REPAIR HEATING, VENTILATION, AND AIR CONDITIONING	4%	100%	0%	100%
G1	Describe heating and air conditioning fundamentals		✓		
Line J	SERVICE, DIAGNOSE, AND REPAIR STRUCTURAL COMPONENTS AND ACCESSORIES	4%	60%	40%	100%
J1	Describe protective structures		✓		
J2	Service, diagnose, and repair cab structures		✓	✓	
Line L	USE COMMUNICATION AND MENTORING TECHNIQUES	1%	50%	50%	100%
L1	Use communication techniques		✓	✓	
Total Percentage for Heavy Duty Equipment Technician Level 1		100%			