OCCUPATIONAL TOOLS AND EQUIPMENT LIST

Heavy Duty Equipment Technician and Truck and Transport Mechanic



Government of Newfoundland and Labrador Department of Immigration, Skills and Labour Apprenticeship and Trades Certification Division

Preface

This document is intended as a companion to the March 2019 Plans of Training and the 2019 Atlantic Apprenticeship Curriculum Standards (AACS) for the Heavy Duty Equipment Technician and Truck Transport Mechanic occupations. It identifies the necessary tools and equipment required by apprentices and training institutions for the completion of apprenticeship training.

Acknowledgements

Advisory committees, industry representatives, instructors and apprenticeship staff provided valuable input to the development of this document. Without their dedication to quality apprenticeship training, this document could not have been produced.

We offer you a sincere thank you.

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Note:

The numbers suggested in the following Tools and Equipment List represent the required minimum. Please verify this list with your selected training institution.



Tools and Equipment List

Heavy Duty Equipment Technician and Truck and Transport Mechanic

SECTION A: TOOLS AND EQUIPMENT REQUIRED BY STUDENT				
ltem	Units for Individual Students	Required for Entry (E) Advanced (A) Both (B)	Comments	
	Ge	eneral Tools		
Adjustable Wrench	1	В		
Chisels – Set	1	В		
Drifts – Set	1	В		
Feeler Gauge	1	В		
Files – Flat and Round	1	В		
Hacksaw	1	В		
Hammers – Small and Large Ballpeen	1	В		
Locking Pliers (i.e., Vice Grips)	1	В		
Measuring Tape, 16' Minimum	1	В		
Pliers	1	В		
Scraper	1	В		
Screwdriver Set	1	В		
Side Cutters	1	В		
Ratchet and Socket Sets – ¾" & ½" Drive	1	В		
Utility Knife	1	В		
Wire Splicer – Crimp Tool	1	В		
Wrench Set – Combination	1	В		



SECTION A:	TOOLS AND E	QUIPMENT REQUIRE	ED BY STUDENT
ltem	Units for Individual Students	Required for Entry (E) Advanced (A) Both (B)	Comments
Metric and Standard			
Tool Box	1	В	
Digital Multimeter	1	В	

Note: If identifying sets, please include specific information.



SECTION B: TOO	LS AND EQUIPM	ENT REQUIRE	D BY TRAINING	G INSTITUTION
ltem	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
	GEI	NERAL TOOLS		
Adjustable Wrench	3	5	В	
Air Compressor	1	15	В	
Alignment tool – Clutch – Set	1	15	А	
Analyzers – Gas	1	15	А	
Barriers - Welding	3	5	В	Optional
Battery Charger	1	15	В	
Battery Post and Clamp Cleaner	1	15	В	
Bearing Heater	1	15	В	
Black Light	1	15	В	
Booster Cable	1	15	В	
Brake Drum Micrometer	1	15	E	
Breakout Box	1	15	В	
Butane Torch	3	5	В	
Calibrated Vessel – Container	1	15	В	
Calipers – Inside (various sizes) - set	1	15	В	
Calipers – Outside (various sizes) - set	3	5	В	
Charging Station	1	15	В	
Chisels – Hand – set	3	5	В	
Compressor Tool – Piston Ring	3	5	А	



SECTION B: TOO	OLS AND EQUIPM	IENT REQUIRE	D BY TRAINING	G INSTITUTION
ltem	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Compressor Tool Valve Spring – mechanical and pneumatic	1 of each	15	А	
Computer Printer	1	15	В	
Computer Terminal	1	15	В	
Computer Equipment: on board computer testing	1	15	В	
Computer Equipment: portable diagnostic	1	15	В	
Coolant Recycling Unit	1	15	В	Optional
Creeper	3	5	В	
Crimping Tool Set	1	15	Е	
Cylinder Cart – Welding complete set)	8	2	E	
Dies (set): NF & NC – metric	1 of each	15	В	
Drift (set)	3	5	В	
Drill, Air - ¾"	1	15	E	
Drill, Press	1	15	E	
Drills, Electric – ¾" & ½"	2 of each	8	E	
Drill Bit Sets: Twist – ¾" & ½" – metric sizes	2 of each	8	В	
nfrared Temperature Reader	1	15	В	
Expanders: Ring	1	15	А	
Extension Cord, Heavy Duty, 3 Prong	2	8	В	
Extensions – ¾", ½", ¾" various lengths	3 of each	5	В	



SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION				
ltem	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Files (sets of various sizes)	3	5	В	
Flaring Tool	4	4	E	
Flaring Tool ISO	2	8	E	
Funnels (various sizes) - set	2	8	В	
Glass Bead Machine	1	15	В	
Grease Gun	3	5	В	
Grinders – Hand	2	8	E	
Grinders – Bench (with wire wheel)	2	8	В	
Growler – Starter / Alternator	1	15	А	
Hacksaw	3	5	В	
Hammer – Ball Peen (2 size set)	3	5	В	
Hammer – Chipper	5	3	В	
Hammer – Dead Blow	2	8	В	
Hammer – Rubber	2	8	В	
Hammer – Sledge	2	8	В	
Hammer – Slide (kit)	2	8	В	
Hand Pump - Fuel	1	15	В	
Headlight Aimer (Truck and Transport only)	1	15	E	
Honing Equipment – Set	1	15	А	
Hydraulic Hose Crimper	1	15	E	
Hydrometer – Coolant, Electrolyte, DEF	1 of each	15	В	



SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION				
ltem	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Refractometer				
Impact Wrench – Air: ¾", ½", ¾"	2 of each	8	В	
Letter & Number stamping Set	1	15	E	
Level Protractor	2	8	В	
Magnaflux Equipment (set)	1	15	А	
Magnetic Pickup Tool	1	15	В	
Magnifying Glass	1	15	В	
Mirror	1	15	В	
Oil Filter Wrenches	1	15	В	
Pittman Arm Remover	1	15	В	
Pliers – Insulated	3	5	В	
Pliers - Locking	4	4	В	
Pliers – Slip Joint	1	15	В	
Pliers – Snap Ring: Inside & Outside	1 of each	15	В	
Power Bars: ½" & ¾"	2 of each	8	В	
Presses – Arbor	1	15	В	
Presses – Drill (floor)	1	15	E	
Presses – Hydraulic	1	15	В	
Pry Bars (set)	1	15	В	
Pullers – Bearing (set)	1	15	В	
Pullers – Gear (set)	1	15	В	
Puller – H	1	15	В	



SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION				
ltem	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Pullers – Hydraulic (set)	1	15	В	
Pullers – Steering Components (set)	1	15	В	
Reamers (set)	1	15	В	
Recycling Unit – A/C	1	15	А	
Retrieval and Storage Equipment – A/C	1	15	А	
Ridge Reamer	2	8	А	
Sandblaster	1	15	В	
Saw – Chop	1	15	Е	
Scraper	3	5	В	
Screw Drivers – Various Types and Sizes (sets)	3	5	В	
Seal Installation Kit	1	15	В	
Side Cutters	3	5	В	
Snap Rings (kit)	1	15	В	
Snips	3	5	В	
Socket Sets: Deep and Shallow Chrome and Impact ¼", ¾", ½" SAE & Metric	3 of each	5	В	
Socket Set: Chrome and Impact, ¾" SAE	3 of each	5	В	
Soldering Iron / Gun	2	8	В	
Spark Lighter	3	5	E	
Strobe Light (Timing light)	1	15	В	
Stud Extractor	3	5	В	



SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION				
ltem	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Taps (set): NF & NC - metric	1 of each	15	В	
Thread Files (set): SAE & Metric	1 of each	15	В	
Thread Inserts (kit)	1	15	В	
Tire Bar Set	2	8	В	
Tire Depth Gauge	2	8	В	
Tire Machine – Optional	1	15	В	
Torque Angle Tool	1	15	В	
Torque Multiplier	1	15	В	
Torque Wrenches: ¼", ¾", ½", ¾"	2 of each	8	В	
TORX Socket Set (inside- outside)	1	15	В	
Timing Block (Set) (Truck Transport Mechanic Only)	1	15	В	
Tube Bender	1	15	Е	
Tube Cutter	3	5	E	
Tubing/Line Wrenches (set): SAE & Metric	1 of each	15	В	
Universal Joint Service Tool (set)	1	15	Е	
Utility Knife	3	5	В	
Welding Equipment: ARC & MIG	3 of each	5	E	
Wheel Alignment Bar (Trammell Gauge)	1	15	А	
Wire Connectors (kit)	1	15	В	
Wire Rope Splicing Clips	1	15	В	



SECTION B: TO	OLS AND EQUIPM	ENT REQUIRE	D BY TRAINING	SINSTITUTION
ltem	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
(Kit)				
Wire Splicer Tool	3	5	В	
Wire Stripper	3	5	В	
Wrenches – Allen (set): Metric and SAE	2 of each	8	В	
Wrenches – Combination metric and SAE (set)	3 of each	5	В	
Wrench – Pipe: (Set) Various Sizes	1	15	В	
	CLEANING EQ	UIPMENT ANI	SUPPLIES	
Cleaning Tank	1	15	В	
Pressure Washer	1	15	В	
Shop Cloths	As requ	iired	В	
Shop Vacuum	1	15	В	
Solvent Washer	1	15	В	
Wire Brush	3	5	В	
Н	DISTING, RIGGING	6, AND HOLDI	NG EQUIPMEN	т
Axle Stands –Set of four	2	8	В	
Bottle/Axle Jack	4	4	В	
Chain Hoist	1	1	В	
Clamps (set) – Various Sizes	3	5	В	
Differential Stand	1	1	А	
Engine Crane	1	1	А	
Engine Repair Stand	2	8	А	



SECTION B: TOC	OLS AND EQUIPM	ENT REQUIRE	D BY TRAINING	SINSTITUTION
ltem	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Hoist – Overhead	1	15	В	
Hydraulic Floor Jack	3	5	В	
Platform Steps	1	15	В	
Slings – Various sizes and Lengths	As requ	ired	В	
Stepladder	2	8	В	
Transmission jack	1	15	А	
Vices – Bench	5	3	В	
Wheel Dolly	1	15	В	
M	EASURING TOOL	S, GAUGES AN	ND EQUIPMEN	Г
Air Gauges – Pressure	2	8	В	
Ammeter	2	8	В	
Belt Tension Gauge	1	15	В	
Boost Gauge - Manometer	2	8	В	
Compression Gauge	2	8	А	
Depth Micrometer (set)	1	15	А	
Dial Indicator	2	8	В	
Dial Bore Gauge (set)	1	15	А	
Digital Multi-Meter (DVOM)	5	3	В	
Drill Gauge	1	15	В	
Feeler Gauge	4	4	В	
Hydraulic Pressure/Flow: Gauge/Meter	1	15	В	



SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION				
ltem	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Manifold Gauge (set)	1	15	А	
Mechanical Pressure Gauges (set)	1	15	В	
Micrometer – Inside	1	15	В	
Micrometer – Outside	3	5	В	
Non-Magnetic Feeler Gauges (set)	1	15	В	
Oil Pressure Gauges (set)	1	15	В	
Pull-Type Scale	2	8	В	
Screw Pitch Gauge	1	15	В	
Small Hole Gauges (set)	2	8	В	
Steel Rules	2	8	В	
Stethoscope	2	8	А	
Straight Edge	2	8	В	
Tachometer, Infrared	1	15	В	
Tape measure, 16' minimum	4	4	В	
Telescoping Gauge	2	8	В	
Thermometer	1	15	В	
Timing Light	2	8	E	Spark Ignition
Vacuum Pump/Gauge	1	15	В	A/C Brake Bleeding
Vernier	1	15	В	
Wire Gauge	1	15	В	
SPECIA	LIZED TOOLS, DI	AGNOSTIC AN	ID TEST EQUIPI	MENT



SECTION B: TOC	DLS AND EQUIPIV	IENI KEQUIKE	D BY TRAINING I	NSTITUTION
ltem	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Antifreeze Tester	1	15	В	
Battery Load Tester	1	15	E	
Bleeding Equipment	1	15	Е	
Brake Drum / Rotor Lathe	1	15	Е	
Cooling System Pressure Tester	1	15	В	
Cylinder Leak Down Tester	1	15	A	
Electronic Leak Detector	1	15	В	For A/C
Fuel Quality Test Kit	1	15	В	
Injector Tester	1	15	А	
Starting and Charging System Testers	1 of each	15	В	
Test Light	2	8	В	
Valve Spring Tester	1	15	А	
	SAFE	TY EQUIPMEN	IT	
Apron – Welding	5	3	E	
Dust Masks	As requ	uired	В	
Ear Muffs / Plugs	15	1	В	
Eye Wash Station	As per 0	DH&S	В	
Face Shields	5	3	В	
Fire Extinguisher(s)	As per (DH&S	В	
Fire proof Blanket(s)	As per C	DH&S	В	
Gloves – Work	15	1	В	



SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION				
ltem	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Gloves – Welding	8	2	В	
Goggles – Welding	8	2	В	
Personal Wear Items	As required	1	В	
Safety Boots (pair)	15	1	В	
Safety Cage – Tire	1	15	E	
Safety Glasses	15	1	В	
Stretcher(s)	As per OH&S		В	
Welding Helmets: ARC & MIG	15	1	E	

Note: If identifying sets, please include specific information.