



CHEMICAL INDUSTRIES EDUCATION & TRAINING AUTHORITY
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SD - 070: DIESEL MECHANIC EQUIPMENT AND TOOL LIST

SECTION A: TOOL LIST

To be completed by applicant during self evaluation

No.	TOOLS	RATIO TO APPIE / LEARN	YES	NO
1.	KEY – ALLEN ARNDT 911 ETZ 162 1/16 – 0.05	1 : 1		
1.	KEY – ALLEN ARNDT 911 ETM 1.5 – 12MM	2. 1 : 1		
3.	PLIER – LONGNOSE WILL 35/BS 200	1 : 1		
4.	PLIER – COMBINATION WILL 62/A3 200	1 : 1		
5.	PLIER – SIDECUT HD SKILLCRAFT M200	1 : 1		
6.	PLIER – WATERPUMP GEDORE 141 250 MM	1 : 1		
7.	PLIER – CIRCLIP O/S STR WILL 141 160	1 : 1		
8.	PLIER – CIRCLIP INS STR WILL 143 180	1 : 1		
9.	VICE GRIP – GEDORE 137 250MM	1 : 1		
10.	SCREWDRIVER – WERALIT 10001 BLK PT	1 : 1		
11.	FRAME HACKSAW – MITCO PROFESSIONAL	1 : 1		
12.	FRAME HACKSAW – ECLIPSE JUNIOR 14J	1 : 1		
13.	KNIFE TRIMM – STANLEY 2-10-099 RET	1 : 1		
14.	HAMMER – BALLPEIN AMBIKA 500G	1 : 1		
15.	HAMMER – BALLPEIN GEDORE 300G	1 : 1		
16.	HAMMER – CLUB DIAMOND 1.8KG	1 : 1		
17.	NYLON MALLET - THORN	1 : 1		
18.	WRENCH ADJUSTABLE – GEDORE 62 300MM	1 : 1		
19.	WRENCH ADJUSTABLE – IREGA 99 150MM	1 : 1		
20.	SPANNER – GEDORE 1B/18M 6 – 30MM	1 : 1		
21.	SPANNER – GEDORE 1B COMB. 23MM	1 : 1		
22.	SOCKET SET – GEDORE C19 TM97U-10T	1 : 1		
23.	DIVIDER SPRING – GROZ DD/6150MM	1 : 1		
24.	TINSNIP – GEDORE 8531 300MM	1 : 1		
25.	CHISEL & PUNCH SET – MITCO 2 6 PCE	1 : 1		
26.	SIDE CUTTERS – CRESCENT 180MM	1 : 1		
27.	TOOLBOX SET – GEDORE # 1262 46 X 26 X 21 M	1 : 1		
28.	BRASS LOCK – VIRO 302 40MM	1 : 1		
29.	MEASURING EQUIPMENT	RATIO TO APPIE/LEARN	YES	NO
30.	CALIPER VERNIER – MIT 530101 150 1/20	1 : 1		

No.	TOOLS	RATIO TO APPIE / LEARN	YES	NO
31.	CALIPER VERNIER 0 - 150	1 : 1		
32.	GAUGE – FEELER VOGEL GV16C M100	1 : 1		
WORKSHOP EQUIPMENT		RATIO TO APPIE/LEARN	YES	NO
33.	PORTABLE DRILLING MACHINE	One per w.shop		
34.	PORTABLE GRINDING MACHINE	One per w.shop		
35.	HYDRAULIC PRESS / PORTA-POWER	One per w.shop		
ARC WELDING				
36.	AC/DC WELDING MACHINES	5:1		
37.	WELDING SCREENS	5:1		
38.	ELECTRODE HOLDER	5:1		
39.	EARTH CLAMPS	5:1		
40.	CABLES	5:1		
41.	WIRE BRUSH	5:1		
42.	CHIPPING HAMMER	5:1		
43.	ARC WELDING HELMET	5:1		
44.	CONSUMABLE MATERIALS	5:1		
GAS WELDING/BRAZING				
45.	OXYGEN CYLINDER	5:1		
46.	ACETYLENE CYLINDER	5:1		
47.	CYLINDER TROLLEY	5:1		
48.	PRESSURE REGULATORS	5:1		
49.	HOSES AND COUPLINGS	5:1		
50.	FLASHBACK ARRESTERS	5:1		
51.	TORCHES	5:1		
52.	NOZZLES (ASSORMENT OF SIZES)	5:1		
53.	TIP CLEANERS	5:1		
54.	SPARK LIGHTER	5:1		
55.	CONSUMBALE MATERIAL (APPLICABLE)	5:1		
56.	GOGGLES (WELDING)	5:1		
*DIESEL MECHANIC SKILLS TRAINING EQUIPMENT			YES	NO
57.	BEARINGS – TRAINING EQUIPMENT AND PARTS	58.		
59.	LUBRICATION – VARIOUS LUBRICANTS & RELATED EQUIPMENT			
60.	GASKETS AND SEALS			
61.	ASSEMBLIES – GEARBOXES / 4-SPEED / 5-SPEED / AUTOMATIC/ OTHER			
62.	ENGINE TUNING EQUIPMENT	63.		

No.	TOOLS	RATIO TO APPIE / LEARN	YES	NO
64.	CYLINDER HEAD BENCH TESTER			
65.	CYLINDER HONING EQUIPMENT			
66.	FUEL INJECTION AND VALVE TIMING			
67.	TURBOCHARGER			
68.	IGNITION COMPRESSION SYSTEM TEST EQUIPMENT			
BASIC LIFTING EQUIPMENT				
69.	CHAIN BLOCK: 2 TON MAX	70. One per w.shop		
71.	COFFING BLOCK: 2 TON MAX	One per w.shop		
72.	SHACKLES: 2 TON MAX	One per w.shop		
73.	CHAIN CLINGS: 2.5 TON MAX	One per w.shop		
74.	WIRE ROPE SLINGS: 20MM DIAMETER	One per w.shop		
75.	TRUCK TOWING EQUIPMENT	GENERAL ASSORTMENT		
*SUSPENSION SYSTEMS				
76.	TOOLS, EQUIPMENT - maintenance, repair and replacement of : front suspension; coil springs; struts; telescopic shock absorbers; anti-roll bar ; constant velocity joints; rear suspension; transverse; torsion axles; trailing arms			
77.	FRONT WHEEL ALIGNMENT EQUIPMENT with regard to- - toe-out - toe-in - camber - castor			
78.	REAR WHEEL ALIGNMENT EQUIPMENT (camber and toe-out).			
79.	WHEEL BALANCING EQUIPMENT			
*AIR OVER HYDRAULIC BRAKE TESTING				
80.	BRAKE BOOSTER TEST EQUIPMENT			
81.	BRAKE TEST STATION (CALIPER AND DISC)			
BATTERIES AND ELECTRICAL SYSTEM				
82.	MULTIMETER / AMETER / VOLTMETER / TEST LAMP			
83.	BATTERY TEST STATION (SPECIFIC GRAVITY TEST EQUIPMENT)			
84.	BATTERY CHARGER			
85.	HEADLIGHT ADJUSTMENT EQUIPMENT			
86.	SOFT SOLDER EQUIPMENT			
87.	BASIC ELECTRICAL TRAINING STATION / AUTO-ELECTRICIAN			
*COOLING SYSTEMS				
2.	COOLING SYSTEM – TEST EQUIPMENT (RADIATOR TESTING AND THERMOMETER)	88.		
89.	WATER PUMP TEST EQUIPMENT			

No.	TOOLS	RATIO TO APPIE / LEARN	YES	NO
90.	ALTITUDE / PRESSURE / BOILING POINT RELATIONSHIP CHARTS			
91.	PRESSURE TESTING OF STATIC COOLING SYSTEMS			
*HYDRAULICS				
			YES	NO
3.	ELEMENTARY HYDRAULIC CIRCUIT DIAGRAMS			
92.	HYDRAULIC FLUIDS (PETROLEUM AND EMULSION BASED)			
93.	CYLINDERS			
94.	ACCUMULATORS			
*PNEUMATICS				
			YES	NO
4.	PNEUMATIC CIRCUIT DIAGRAMS			
95.	COMPRESSED AIR PIPELINES			
96.	AIR SERVICE UNITS			
97.	CYLINDERS			
SAFETY		RATIO TO APPIE/LEARN	YES	NO
98.	OVERALL	1 : 1		
	SAFETY BOOTS	1 : 1		
	EAR PLUGS	1 : 1		
	SAFETY GOGGLES	1 : 1		
COMMENTS				
APPLICANT		DATE		

*Apprentice must have exposure on these areas

SECTION B: SITE VISIT INSPECTION

To be completed by CHIETA Representative during sit visit

COMMENTS			
CHIETA REPRESENTATIVE		DATE	