



CHEMICAL INDUSTRIES EDUCATION & TRAINING AUTHORITY
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SD - 073: MOTOR 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
	KEY – ALLEN ARNDT 911 ETZ 162 1/16 – 0.05	1 : 1		
1.	KEY – ALLEN ARNDT 911 ETM 1.5 – 12MM	1 : 1		
2.	PLIER – LONGNOSE WILL 35/BS 200	1 : 1		
3.	PLIER – COMBINATION WILL 62/A3 200	1 : 1		
4.	PLIER – SIDECUT HD SKILLCRAFT M200	1 : 1		
5.	PLIER – WATERPUMP GEDORE 141 250 MM	1 : 1		
6.	PLIER – CIRCLIP O/S STR WILL 141 160	1 : 1		
7.	PLIER – CIRCLIP INS STR WILL 143 180	1 : 1		
8.	VICE GRIP – GEDORE 137 250MM	1 : 1		
9.	SCREWDRIVER – WERALIT 10001 BLK PT	1 : 1		
10.	FRAME HACKSAW – MITCO PROFESSIONAL	1 : 1		
11.	FRAME HACKSAW – ECLIPSE JUNIOR 14J	1 : 1		
12.	KNIFE TRIMM – STANLEY 2-10-099 RET	1 : 1		
13.	HAMMER – BALLPEIN AMBIKA 500G	1 : 1		
14.	HAMMER – BALLPEIN GEDORE 300G	1 : 1		
15.	HAMMER – CLUB DIAMOND 1.8KG	1 : 1		
16.	NYLON MALLET - THORN	1 : 1		
17.	WRENCH ADJUSTABLE – GEDORE 62 300MM	1 : 1		
18.	WRENCH ADJUSTABLE – IREGA 99 150MM	1 : 1		
19.	SPANNER – GEDORE 1B/18M 6 – 30MM	1 : 1		
20.	SPANNER – GEDORE 1B COMB. 23MM	1 : 1		
21.	SOCKET SET – GEDORE C19 TM97U-10T	1 : 1		
22.	DIVIDER SPRING – GROZ DD/6150MM	1 : 1		
23.	TINSNIP – GEDORE 8531 300MM	1 : 1		
24.	CHISEL & PUNCH SET – MITCO 2 6 PCE	1 : 1		
25.	SIDE CUTTERS – CRESCENT 180MM	1 : 1		
26.	TOOLBOX SET – GEDORE # 1262 46 X 26 X 21 M	1 : 1		
27.	BRASS LOCK – VIRO 302 40MM	1 : 1		
MEASURING EQUIPMENT				
28.	CALIPER VERNIER – MIT 530101 150 1/20	1 : 1		
29.	CALIPER VERNIER 0 - 150	1 : 1		
30.	GAUGE – FEELER VOGEL GV16C M100	1 : 1		
WORKSHOP EQUIPMENT				
31.	PORTABLE DRILLING MACHINE	One per w.shop		
32.	PORTABLE GRINDING MACHINE	One per w.shop		
33.	HYDRAULIC PRESS / PORTA-POWER	One per w.shop		

No	TOOLS	RATIO TO APPIE / LEARN	YES	NO
ARC WELDING				
34.	AC/DC WELDING MACHINES	5:1		
35.	WELDING SCREENS	5:1		
36.	ELECTRODE HOLDER	5:1		
37.	EARTH CLAMPS	5:1		
38.	CABLES	5:1		
39.	WIRE BRUSH	5:1		
40.	CHIPPING HAMMER	5:1		
41.	ARC WELDING HELMET	5:1		
42.	CONSUMABLE MATERIALS	5:1		
GAS WELDING/BRAZING				
43.	OXYGEN CYLINDER	5:1		
44.	ACETYLENE CYLINDER	5:1		
45.	CYLINDER TROLLEY	5:1		
46.	PRESSURE REGULATORS	5:1		
47.	HOSES AND COUPLINGS	5:1		
48.	FLASHBACK ARRESTERS	5:1		
49.	TORCHES	5:1		
50.	NOZZLES (ASSORTMENT OF SIZES)	5:1		
51.	TIP CLEANERS	5:1		
52.	SPARK LIGHTER	5:1		
53.	CONSUMABLE MATERIAL (APPLICABLE)	5:1		
54.	GOGGLES (WELDING)	5:1		
*MOTOR MECHANIC SKILLS TRAINING EQUIPMENT				
55.	BEARINGS – TRAINING EQUIPMENT AND PARTS			
56.	LUBRICATION – VARIOUS LUBRICANTS & RELATED EQUIPMENT			
57.	GASKETS AND SEALS			
58.	ASSEMBLIES – GEARBOXES / 4-SPEED / 5-SPEED / AUTOMATIC/ OTHER			
59.	ENGINE TUNING EQUIPMENT			
60.	CYLINDER HEAD BENCH TESTER			
61.	CYLINDER HONING EQUIPMENT			
62.	FUEL INJECTION AND VALVE TIMING			

No	TOOLS	RATIO TO APPIE / LEARN	YES	NO
BASIC LIFTING EQUIPMENT				
63.	CHAIN BLOCK: 2 TON MAX	One per w.shop		
64.	COFFING BLOCK: 2 TON MAX	One per w.shop		
65.	SHACKLES: 2 TON MAX	One per w.shop		
66.	CHAIN CLINGS: 2.5 TON MAX	One per w.shop		
67.	WIRE ROPE SLINGS: 20MM DIAMETER	One per w.shop		
*SUSPENSION SYSTEMS				
68.	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			
69.	FRONT WHEEL ALIGNMENT EQUIPMENT with regard to- - toe-out - toe-in - camber - castor			
70.	REAR WHEEL ALIGNMENT EQUIPMENT (camber and toe-out).			
71.	WHEEL BALANCING EQUIPMENT			
*AIR OVER HYDRAULIC BRAKE TESTING				
72.	BRAKE BOOSTER TEST EQUIPMENT			
73.	BRAKE TEST STATION (CALIPER AND DISC)			
BATTERIES AND ELECTRICAL SYSTEM				
74.	MULTIMETER / AMETER / VOLTMETER / TEST LAMP			
75.	BATTERY TEST STATION (SPECIFIC GRAVITY TEST EQUIPMENT)			
76.	BATTERY CHARGER			
77.	HEADLIGHT ADJUSTMENT EQUIPMENT			
78.	SOFT SOLDER EQUIPMENT			
79.	BASIC ELECTRICAL TRAINING STATION / AUTO-ELECTRICIAN			
*COOLING SYSTEMS				
80.	COOLING SYSTEM – TEST EQUIPMENT (RADIATOR TESTING AND THERMOMETER)			
81.	WATER PUMP TEST EQUIPMENT			
82.	ALTITUDE / PRESSURE / BOILING POINT RELATIONSHIP CHARTS			
83.	PRESSURE TESTING OF STATIC COOLING SYSTEMS			
SAFETY				
	OVERALL	1 : 1		
	SAFETY BOOTS	1 : 1		

No	TOOLS	RATIO TO APPIE / LEARN	YES	NO
	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	