



ELECTRICIAN TOOL AND EQUIPMENT LIST

TOOLS	RATIO	YES	NO
Allen Key 1.5- 12mm	1per workshop		
Allen Key 1.5- 12mm	1per workshop		
Long nose pliers 200mm	1:5		
Combination pliers 200mm	1:1		
Side cut pliers 180	1:1		
Waterpump pliers 250mm	1:1		
Circlip pliers	1per workshop		
Vicegrip 250mm	1per workshop		
Screwdriver set	1:1		
Hacksaw frame	1:1		
Junior Hacksaw frame	1per workshop		
Stanley knife	1:1		
Ball pin hammer	1:1		
Mallet	1per workshop		
Adjustable wrench 300mm	1:5		
Adjustable wrench 150mm	1:5		
Combination spanners 6mm-23mm	1per workshop		
Socket set 8mm -22mm	1per workshop		
Spring divider 150mm	1per workshop		
Tin snip 300mm	1per workshop		
Wire Striper	1:1		
Round nose	1per workshop		
Tube spanners	1:1		
Scriber	1:5		
Engineering square	1:5		
Bosal bender	1:5		
Spring bender	1:5		
Pipe vice	1:5		
Bur remover (metal and PVC)	1:5		
Combination square	1:5		
MEASURING EQUIPMENT			
Vernier caliper 150mm	1:5		
Tape measure 3m	1:1		
Steel rule	1:5		
Spirit level	1per workshop		
WORKSHOP EQUIPMENT			
Portable drilling machine	1per workshop		
Portable grinding machine	1per workshop		

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Portable jigsaw	1per workshop		
Engineers vice	1:5		
Pedestal grinder	1per workshop		
Pedestal drilling machine	1per workshop		
ARC WELDING			
AC/DC welding machine	1:5		
Welding screens	1:5		
Electrode holder	1:5		
Earth clamps	1:5		
Cables	1:5		
Wire brush	1:5		
Chipping hammer	1:5		
Arc welding helmet	1:5		
Consumables	1:5		
Welding gloves	1:5		
Welding apron	1:5		
GAS WELDING AND BRAZING			
Oxygen cylinder	1:5		
Acetylene cylinder	1:5		
Cylinder trolley	1:5		
Pressure regulators	1:5		
Hoses and couplings	1:5		
Flashback arrestors	1:5		
Torches	1:5		
Nozzles (various sizes)	1:5		
Tip cleaners	1:5		
Spark lighter	1:5		
Consumables	1:5		
BASIC LIFTING EQUIPMENT			
Chain block: 2 ton max	1per workshop		
Coffin block: 2 ton max	1per workshop		
Shackles: 2 ton max	1per workshop		
Slings: 2 ton capacity	4 per workshop		
ELECTRONICS			
Electronic components (diodes, resistors, capacitors, transistors, LED's (green & red)	1:5		
PC boards	1:5		
Soldering iron	1:5		
Consumables (Solder)	1:5		
PLC system	1:5		
Variable speed drive (VSD)	1:5		
ELECTRONIC AND ELECTRICAL TEST INSTRUMENTS			
Voltmeter	1:5		
Ammeter	1:5		
Ohmete	1:5		
Multimeter	1:5		
Pulse generator	1:5		
Oscilloscope	1:5		

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Frequency counter	1:5		
Power supply	1:5		
Capacitance tester	1:5		
Insulation tester	1:5		
Earth leakage tester	1:5		
Polarity tester	1:5		
Phase rotation tester	1:5		
Insulation resistance tester (megger)	1:5		
PSC tester	1per workshop		
AC MACHINES			
Single phase induction motors	1:5		
3 phase slip ring induction motors	1:5		
3 phase squirrel cage induction motors	1:5		
Transformers	1:5		
DC MACHINES			
Series motors	1:5		
Shunt motors	1:5		
WIRING			
Panels for panel wiring	1:3		
• Current and power transformer			
• Energy meters (3phase and 1phase)			
• 3 phase forward and reverse			
• Sequence panel			
• 1 phase forward and reverse with selector switch			
• 1 phase forward and reverse with contactors			
• Oscillating panel with limit switches			
Motors and starters	1:3		
• Autotransformer			
• Automatic star /delta			
• 2 speed starter with selector switch			
• 2 speed starter with contactors			
• 2 speed starter - automatic			
• Automatic resistance starter			
• Variable speed drive			
FAULTFINDING			
Relay panel	1:3		
AC plugging to neutral panel	1:3		
PLC panel	1:3		
SAFETY			
Overall	1:1		
Safety boots	1:1		
Safety goggles	1:1		
Lockout switches	1 per panel		
CONDUIT WORK			
Installation with and without obstruction			

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