

**Subject: Maintenance Practices Part A**

**Practical**

S/N	TASK NUMBER	BASIC PRACTICAL TASKS	PERFORM EDON	LE V EL
81.	7A-01	Perform the mock drill for operation of Fire Extinguisher. Perform The Mock Drill for First AID in the event of Electrical Shock.	L a b	3
82.	7A-02	Perform care procedure of hand tools a. Care of Hammers. b. Care of Screwdrivers. c. Care of Wrenches. d. Care of Pliers and Tongs. e. Care of Chisels. f. Care of Punches. g. Care of Files. h. Care of Taps. i. Care of Dies. j. Care of Dividers & Callipers. k. Care of Micrometres. l. Care of Rules. m. Care of Scriber.	Tool Crib	3
83.	7A-03	To make a square fit from the given mild steel pieces	Gen Engg. W/S	3
84.	7A-04	Use the plan and Philips screw drivers, Bits in combination of bit holders and ratchet, extension bar to open and tight the panel mounted screws.	Gen Engg. W/S	3
85.	7A-05	Open and tight the panel mounted screws by using speed handle, bits and holder.	Gen Engg. W/S	3
86.	7A-06	Open the panel mounted screw by using power operated screw drivers.	Gen Engg. W/S	3
87.	7A-07	Install and remove the nut and bolts assembly by using the combination spanners & adjustable spanners.	Gen Engg. W/S	3
88.	7A-08	Install and remove the nut and bolts assembly by using sockets, extension, ratchet, T handle, universal joint, expanders& reducers.	Gen Engg. W/S	3
89.	7A-09	Install and remove the nut and bolts assembly by using offset and offset socket wrenches.	Gen Engg. W/S	3

90.	7A-10	Remove and installed the set head screw or socket head screws.	Gen Engg. W/S	3
91.	7A-11	Grip the job at C clamp, tool maker clamp and grip vies pliers and remove the damaged exposed screw by using grip vise pliers.	Gen Engg. W/S	3
92.	7A-12	Perform the wire locking by using locking wire pliers	Gen Engg. W/S	3
93.	7A-13	Set and use the given torque value of torque in different units in torque wrenches.	Gen Engg. W/S	3
94.	7A-14	Use the screw extractor to remove the damage screw	Gen Engg. W/S	3
95.	7A-15	Remove and install the stud from assembly part.	Gen Engg. W/S	3

96.	7A-16	Use the crowfoot wrench and hook spanners to remove and installed nut and bolt from the assembly part.	Gen Engg. W/S	3
97.	7A-17	Remove and installed the circlip by using the circlip pliers.	Gen Engg. W/S	3
98.	7A-18	Use the impact drivers to break loose a stubborn fastener.	Gen Engg. W/S	3
99.	7A-19	Perform the measurements by using the steel rule (metric and Inches).	Gen Engg. W/S	3
100.	7A-20	Perform the measurements by using the outside micrometer (imperial and metric).	Gen Engg. W/S	3
101.	7A-21	Perform the measurements by using the Vernier callipers (imperial and metric).	Gen Engg. W/S	3
102.	7A-22	Perform the measurements by using the Vernier height gauge.	Gen Engg. W/S	3
103.	7A-23	Perform the measurements by using the Vernier depth gauge.	Gen Engg. W/S	3
104.	7A-24	Perform the measurements by using the Telescoping gauge.	Gen Engg. W/S	3
105.	7A-25	Perform the measurements by using the small hole gauge.	Gen Engg. W/S	3
106.	7A-26	Perform the measurements by using the dial test indicator (imperial and metric).	Gen Engg. W/S	3
107.	7A-27	Perform the angle measurements by using the precession bevel protector.	Gen Engg. W/S	3
108.	7A-28	Perform measurement by using the combination set.	Gen Engg. W/S	3
109.	7A-29	Measure the inside diameter of a job by using the inside calipers	Gen Engg. W/S	3

110.	7A-30	Measure the outside diameter of a job by using the outside calipers	Gen Engg. W/S	3
111.	7A-31	Transfer the measurement from outside to inside calipers	Gen Engg. W/S	3
112.	7A-32	Measure the distance and draw an arc & circle by using the dividers.	Gen Engg. W/S	3

113.	7A-33	Draw parallel lines by using the jenny calipers & find the centre of round bars by using jenny callipers.	Gen Engg. W/S	3
114.	7A-34	Check the hole of exact size by using Ring gauge.	Gen Engg. W/S	3
115.	7A-35	Check the accuracy of holes by using plug gauge	Gen Engg. W/S	3
116.	7A-36	Check the size of the drill bits by using the drill gauge	Gen Engg. W/S	3
117.	7A-37	Measure the clearance or gaps by using feeler or thickness gauge	Gen Engg. W/S	3
118.	7A-38	Check the inside and outside radius of a component by using a fillet or radius gauge.	Gen Engg. W/S	3
119.	7A-39	Check the pitch of a thread by using screw pitch gauge	Gen Engg. W/S	3
120.	7A-40	Perform the measurement by use of Go and not go gauge	Gen Engg. W/S	3
121.	7A-41	Check the wire size by using the SWG/AWG.	Gen Engg. W/S	3
122.	7A-42	Check the flatness of surface by using inclinometer	Gen Engg. W/S	3
123.	7A-43	Drill holes as per the given size by using of pillar and sensitive drill machine.	Gen Engg. W/S	3
124.	7A-44	Perform the reaming operation to enlarge the drilled holes to accurate dimensions.	Gen Engg. W/S	3
125.	7A-45	Cut the internal screw thread on drilled holes by using the taps.	Gen Engg. W/S	3
126.	7A-46	Cut the external screw threads on round bar metals by using the dies.	Gen Engg. W/S	3
127.	7A-47	Perform the grinding operation on a specimen job	Gen Engg. W/S	3
128.	7A-48	Perform the buffing operation on a specimen job	Gen Engg. W/S	3
129.	7A-49	Cut the job piece by Powered hacksaw.	Gen Engg. W/S	3
130.	7A-50	Cut the metal sheet by using Sheet metal guillotine/hand shear machine.	Gen Engg. W/S	3

131.	7A-51	Perform the turning operation for a job on lathe machine.	Gen Engg. W/S	3
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<b>132.</b>	7A-52	Perform the Counter boring, spot facing and countersinking operation.	Gen Engg. W/S	3
<b>133.</b>	7A-53	To cut a spur gear tooth on a given circular blank by gear cutting processes on horizontal milling machine.	Gen Engg. W/S	3
<b>134.</b>	7A-54	Perform electric arc welding and make the different joints.	Gen Engg. W/S	3
<b>135.</b>	7A-55	Perform TIG welding and make different joints.	Gen Engg. W/S	3
<b>136.</b>	7A-56	Perform the oxy Acetylene welding by Using different flame.	Gen Engg. W/S	3
<b>137.</b>	7A-57	Perform the spot welding on a job piece.	Gen Engg. W/S	3
<b>138.</b>	7A-58	Use multimeter to meters to measure AC and DC volts, amps and resistance.	Electrical Lab	3
<b>139.</b>	7A-59	Check an aircraft electrical circuit for continuity in conjunction with an electrical wiring diagram	Electrical Lab	3
<b>140.</b>	7A-60	Check the insulation resistance by using Megger	Electrical Lab	3
<b>141.</b>	7A-61	Perform wire splicing.	Electrical Lab	3
<b>142.</b>	7A-62	Insert / extract electrical inserts (pins) in a variety of electrical connectors.	Electrical Lab	3
<b>143.</b>	7A-63	Perform the tying and lacing of aircraft wire bundle.	Electrical Lab	3
<b>144.</b>	7A-64	Perform crimping to prepare cable ends or plug / socket terminals.	Electrical Lab	3
<b>145.</b>	7A-65	Perform cutting, stripping of coaxial cable and crimping of BNC connector with co-axial cable.	Electrical Lab	3
<b>146.</b>	7A-66	Find out the cable length, amperage, voltage and size of the cables by referring charts and identification of codes.	Electrical Lab	3
<b>147.</b>	7A-67	Measure the resistance of bonding jumpers by using mill ohmmeter.	Electrical Lab	3
<b>148</b>	7A-68	Perform the electrical wire and component soldering.	Electrical Lab	3