

# AUTO SEVICE TECHNICIAN (AST)LEVEL4

QUALIFICATION PACK: ASC/Q1402

## LIST OF TOOLS & EQUIPMENT

Sl.No.	Item Name	Specification	Qty	Remarks
1	Service Technician Tool Kit	Allen Key set- 1.5-10mm, Double open spanner set 6 to 32, Ring Spanner set 6 to 32, Pin Punch set 1.5,2.5,3,4mm, Screwdriver set size Flat blade6.5X125mm; 8X150mm1X80mm; 2X100mm Insulator Plier set 7"Side Cutting Plier, 7 Long Nose Plier, 8"Combination Plier, Circlip Plier set6" Bend external, Bend internal, Straight external, Straight internal.Ball peen hammer Head weight 650 to 700gms, Chisel 1" blade width, 10" overall length,Cat bar 16", 12" Hack saw frame with blade, 1/2"Socket & Accessories size 8 to 32mm, normal socket 10 to 22, deep socket , ratchet handle, sliding T bar, L handle, Universal joints, extension bars - 5" and 10", spark plug socket 16mm and 20mm, feeler gauge 20 leaves 150mm, 10" adjustable wrench, 10" water pump plier, 10" locking plier.	5	Set
2	Drive Socket Set	6-32", 32 (13 piece with Ratchet, sliding T head and Extension rod.	2	Set
3	Lever Type Grease Gun	120gms, 4" extension(Hand operated)	2	Nos.
4	Chisel - Drop Forge	16 x 22 x 20	10	Nos.
5	Oil Can	200ml Capacity	4	Nos.
6	Centre Punches	1/8", 5/32", 3/16", 7/32", 1/4", 5/16"(6 piece with hallow set with 3.5" length.	10	Nos.
7	Three Leg Puller	4", 8" length	1	Nos.
8	Hammer Ball Peen	500 to 800 gms	15	Nos.
9	Single - Arm Torque Wrench	1 - 7 mkg,3 - 14 mkg and 5 - 23 mkg	1	Nos.
10	Cross Wheel Spanner	(17 x 18 - 19 x 21 mm)	5	Nos.
11	Bench Vice	(100 mm x 4")	2	Nos.
12	Vernier Callipers	0-6" or 0-150mm Manual or Digital with Accuracy 0.001"	5	Nos.
13	Micrometer	(Size: 0 to 25 mm)	3	Nos.
14	Multimeter	Amp: 200micro amp to 10amp, 200 Ohm to 2000 K Ohm, 200mV to 1000V DC and 200mV to 750V AC with accuracy 0.01mm	2	
15	Hacksaw with Blade	(300 mm)	15	Nos.
16	Tyre Pressure Gauge	upto 50psi	2	Nos.
17	Steel Rule	12"	15	Nos.
18	Tape Measure	5m, steel measuring tape, retractable	15	Nos.
19	Hydro Meter	To read up to 1.280 ,1.300	2	Nos.
20	Plastic Hammer	400 to 500gms with 9" diameter	5	Nos.
21	Filter Adjustable Remover	Chain type adjustable	1	Nos.

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	Spark Plug Sockets	67 mm Drive Size 16/21 mm	2	Nos.
23	Dial Gauge	50 to 160mm with 0.1mm accuracy	5	Nos.
24	Wire Brush	upto 32mm length	5	Nos.
25	Hydraulic Jacks	3 Ton Trolley type / bottle type.	2	Nos.
26	Air Compressor	upto 12.5bar pressure	1	Nos.
27	Tyre Inflator	12V DC operated air compressor pump with digital tyre inflator	1	Nos.
28	Battery Charger	12V, 7amp charging capacity, 7AH to 220 AH	1	Nos.
29	Creeper	upto 150Kg with 4castor wheelies	2	Nos.
30	Drain Pans / Engine Tray	12" x 18", 18" x 24"	6	Nos.
31	Temperature Sensing Device	Infrared thermometer digital laser 50 to 500 degree C	2	Nos.
32	Wheel Chocks	3 to 14 X 1to 58cm	6	Nos.
33	Measuring Can	5 to 10Lt with graduation of 100mm	2	Nos.
34	Two Post Lift	2 to 4 Tonnes, max height 1.7m, powered by electric motor.	1	Nos.
35	Neon Timing Light	With electrical display	3	Nos.
36	Injector Tester and Cleaner	Upto 400bar	1	Nos.
37	A/C Leakage Tester	Halogen leak detector for refrigerent gas leakage with adjustable sensitivity	1	Nos.
38	Diagnostic Tool	Diagnostic scan tool to scan all domestic Asian and European vehicles with bluetooth connectivity and lap top with necessary software.	1	Nos.
39	Wheel Balancer	computerised wheel balancer with standard set of accessories, 3 cones. Caliper, weight plies.	1	Nos.
40	Tyre Changer	Automatic tyre changer	1	Nos.
41	Head Light Focusing	Suitable for all types of automobiles optical mirror, lens accuracy + or - 15% (15 to 32 Lux), + or - 10%(30 to 64 lux), + or - 5%(64 to 240 lux)	1	set
42	Pneumatic Tools	0.5 inch , 125mm extension bar, working torque upto 320Nm	1	set
43	Wheel Aligner	Tracking for left, right turn and toe out measurements variable height, horizontal beam with camera to measure front and rear wheel alignment.	1	Nos.
44	Goggles	50 mm eye cups	15	Nos.
45	Ear Plugs	Noise reducing capability 29 decibels	15	set.
46	Gloves	Synthetic leather construction with breathable micro fiber	15	set.
47	First Aid	Gauze pads (at least 4 by 4 inches), two large gauze pads (at least 8 by 10 inches)A box of adhesive bandage, roll of bandage, triangular bandage, cleaning agent, scissors, one blanquet, Tweezers, Adhesive tape, Latex gloves, Two elastic wraps, A splint	2	Nos.
48	Powder - Based Fire Extinguisher	Class ABC, 500 gms	4	Nos.

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	Water Stored Pressure Fire - Extinguisher	Class A, 9 ltr		
50	Safety Sign		2	Nos.
51	Bench Grinder	Any standard make	1	Nos.
52	BC Clamp meter	0.5 HP with 6 inch wheel	1	Nos.
53	Hard toed boots	200 Amp AC/DC	3	Nos.
54	Bump Caps	Any standard make	30	set
55	Hydraulic press	Any standard make	30	Nos.
56	Vehicle safety stand	5 tonne	1	Nos.
57	Parts washing station	2tonne	4	Nos.
58	Sledge hammer	Any standard make	1	Nos.
59	A/c testing and servicing equipment	1 to 9 kg	1	Nos.
60	Piston ring compressor	Used for recovery, recycling, evacuation and charging along with leak detection, pressure testing etc	1	Nos.
61	Piston ring expander	53mm to 175mm diameter adjustable with allen key	3	Nos.
62	Piston ring groove cleaner	2 to 5"	3	Nos.
63	Compression gauge	1.5, 1.75, 2mm including 2 cutter wheels.	3	Nos.
64	Stud remover	For diesel engine 0 to 70 bar/ 0 to 1000 psi, gauge 2- 0.5 inch diameter	3	Nos.
65	OBd scanner	M3 to M8	3	Nos.
66	Arbor press	Android based scanner	1	Nos.
67	Feeler blade set	3 tonne square ram	1	Nos.
68	Vulcanizer unit	0.04 to 1 mm	5	Nos.
		220V 50 Hz 1000W powered unit	1	Nos.

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**Scrap Item List for Auto Service Technician Lab**

Sl.No.	Item Name	Specification	Qty	Remarks
1	Petrol Vehicle	4 Wheeler petrol engine with MPFI	1	
2	Diesel Vehicle	4 Wheeler diesel engine with CRDi or Quadrajat	1	
3	Petrol Vehicle	4 Wheeler petrol engine with MPFI or Carbutattor	1	Dismantling for study of components.
4	Diesel Vehicle	4 Wheeler diesel engine with CRDi or conventional type	1	Dismantling for study of components.

**Furniture Item List for Auto Service Technician Lab**

Sl.No.	Item Name	Specification	Qty	Remarks
1	Work Bench Wooden	4ft X 3ft X 2.5"	5	
2	Almirah for Keeping Tools	6" Height x 3" Width x 1.75" Depth and 18 Gauge	3	

**Consumables for Auto Service Technician Lab**

Sl.No.	Item Name	Specification	Qty	Remarks
1	Cotton waste		10 kg	
2	Grease		5 kg	
3	Engine oil		5 litres	
4	Diesel		5 litres	
5	Petrol		5 litres	
6	soap	washing purpose	15	
7	Gear Oil	SAE 90	5 litres	
8	Brake fluid	dot 3	5 litres	
9	Coolant		5 litres	

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