

## HVAC Technician – List of tools and materials

HVAC Technician Practical - Requirement List			
S.No	Description	Unit	Quantity (per candidate)
<b>Task 1</b>			
1	HVAC system with a worn out compressor	Nos.	1
2	Vacuum pumps	Nos.	1
3	Gauges	Nos.	1
4	Refrigerant recovery tools	Nos.	1
5	Diagnostic equipment	Nos.	1
6	Screw driver	Nos.	1
7	Pliers	Nos.	1
<b>Task 2</b>			
1	HVAC system with a disassembled compressor	Nos.	1
2	Vacuum pumps	Nos.	1
3	Gauges	Nos.	1
4	Refrigerant recovery tools	Nos.	1
5	Diagnostic equipment	Nos.	1
6	Screw driver	Nos.	1
7	Pliers	Nos.	1
8	New compressor as per the model used in the HVAC system	Nos.	1
9	Refrigerant cylinder	Nos.	1
<b>Task 3</b>			
1	HVAC system with dirty external unit	Nos.	1
2	Cleaning Brush	Nos.	1
3	Garden Hose	Nos.	1
4	Fiin comb/Butter knife	Nos.	1
5	Screw driver	Nos.	1
6	Cleaning Agent	Nos.	1
7	Water	Nos.	1
8	Pipe cleaner	Nos.	1
9	Antibacterial solution spray	Nos.	1
10	Wrench	Nos.	1
11	Mallet	Nos.	1
12	Screw driver	Nos.	1
<b>Task 4</b>			
1	HVAC system with dirty internal unit	Nos.	1
2	Cleaning Brush	Nos.	1
3	Garden Hose	Nos.	1
4	Fiin comb/Butter knife	Nos.	1
5	Screw driver	Nos.	1
6	Cleaning Agent	Nos.	1

7	Water	Nos.	1
8	Pipe cleaner	Nos.	1
9	Antibacterial solution spray	Nos.	1
10	Wrench	Nos.	1
11	Mallet	Nos.	1
12	Screw driver	Nos.	1
<b>Task 5</b>			
1	HVAC system with faulty ductwork (leakage in one of the ducts)		1
2	Plastic wrap/Duct tape to seal	Nos.	1
3	Leak detector/Smoke machine	Nos.	1
4	Insulation wrap	Nos.	1
5	Duct mastic/Duct sealant	Nos.	1
6	Sealing tape	Nos.	1
7	Screw driver	Nos.	1
8	Pliers		1
<b>Task 6</b>			
1	HVAC system with Freon leakage		1
2	Refrigerant leak detector	Nos.	1
3	Leak Sealant	Nos.	1
4	Airlock purge tool kit	Nos.	1
5	Flashlight	Nos.	1
6	Screw driver	Nos.	1
7	Pliers	Nos.	1
8	Freon gas can/cylinder	Nos.	1
<b>Task 7</b>			
1	HVAC system with a dirty furnace		1
2	Pilot lights	Nos.	1
3	Lubricant	Nos.	1
4	Screw driver	Nos.	1
5	Pliers	Nos.	1
6	Cotton cloth, wire brush and other cleaning material	Set	1
<b>Task 8</b>			
1	HVAC system with faulty external heat pump		1
2	Insulation wrap	Nos.	1
3	Leak detector	Nos.	1
4	Drill machine	Nos.	1
5	Hammer	Nos.	1
6	Hole Saw - 1/2 Minimal	Nos.	1
7	Pliers	Nos.	1
8	Wire stripper	Nos.	1
9	Cable Tie	Nos.	1
10	Tape	Nos.	1
11	Level	Nos.	1
12	New external heat pump as per the the HVAC system	Nos.	1

<b>Task 9</b>			
1	HVAC system with damaged filter		1
2	Screw driver	Nos.	1
3	Pliers	Nos.	1
4	Multimeter	Nos.	1
5	Manifold gauge	Nos.	1
6	New filter as per the HVAC system	Nos.	1
<b>Task 10</b>			
1	HVAC system with faulty thermostat	Nos.	1
2	Screw driver	Nos.	1
3	Multimeter	Nos.	1
4	Manifold gauge	Nos.	1
5	Pliers	Nos.	1
6	New thermostat for the HVAC system	Nos.	1
**	PPE like gloves, shoes, coveralls, masks, etc. are common for all the tasks		