TAMIL NADU OPEN UNIVERSITY

**School of Continuing Education**

**Vocational Diploma in Refrigeration and AC Technician (VDRA)**

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| 1 | Name of the Institution, where Community College is proposed |  | |
| 2 | Approval of DOTE/Employment and Training if any |  | |
| 3 | Whether the Institution is a Polytechnic College/ITI/NGO |  | |
| 4 | Whether the institution is Community College (if yes please attach tie-up and industrial partner details) |  | |
| 5 | Infrastructural Facilities Required for the VDRA Programme | | |
| a. 2/3 Class Rooms for conducting class |  | |
| b. General Tools (Figures in bracket shows nos) | | Please Tick |
| (1).Ball Peen Hammer 500 gm(1) | |  |
| (2).Combination Plier 8 inches(1) | |  |
| (3).Nose Plier 6 inches(1) | |  |
| (4).Open end Spanner 6 to 22(1) | |  |
| (5).Screw Driver Set 12 inches(1) | |  |
| (6).Screw Driver Set (Flat, Star) 8 inches(1) | |  |
| (7).Tester 240 Volts(1) | |  |
| (8).File Flat Smooth 8 inches(1) | |  |
| (9).Bench Vice 6 inches(1) | |  |
| (10).Hacksaw Frame Adjustable 8 to 12 inches(1) | |  |
| (11).Hacksaw Frame Fix 6 inches(1) | |  |
| (12).Adjustable Spanner 12 inches(1) | |  |
| (13).Centre Punch 4 inches(1) | |  |
| (14).Chese Fiat 6 inches(1) | |  |
| (15).Filler Gauge(1) | |  |
| (16).Snip 12 inches(1) | |  |
| (17).Solder Iron (Electrical) (1) | |  |
| (18).Inside Clipper 6 inches(1) | |  |
| (19).Outside Clipper 6 inches(1) | |  |
| (20).Monkey Spanner Adjustable(1) | |  |
| (21).Wheel Puller(1) | |  |
| (22).Wire Cutter (1) | |  |
| c. Special Refrigeration-Tools(Figures in bracket shows nos) | |  |
| (1).Flaring Tools –Block(1) | |  |
| (2).Flaring Tools- Yock(1) | |  |
| (3).Swadzing Tools 3/16.1/4.5/16.3/8.1/2.5/8(1) | |  |
| (4).Tube Cutter(1) | |  |
| (5).Valve Key(1) | |  |
| (6).Gas Cylinder(1) | |  |

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|  | (7).Spring Blender(1) |  |
| (8).Pulley Bender 3/8, 1/2(1) |  |
| (9).Pinching Tools(1) |  |
| (10).T Shape Alien Key 1/ 8(1) |  |
| (11).Continuity Tester(1) |  |
| (12).Vacuum Pump(1) |  |
| (13).Flexible Charging Line 3 Ft(1) |  |
| (14).Servicing Brass (1) |  |
| (15).Charging Valve(1) |  |
| (16).Blow Lamp(1) |  |
| (17).Reflector & Gauge Manifold(1)+ (1) |  |
| d. Measuring Tools(Figures in bracket shows nos) |  |
| (1).Compound Gauge-30 to 150 P.S.I.G(1) |  |
| (2).Pressure Gauge 0 to 300 P.S.I.G(1) |  |
| (3).Measuring Tape 5 Feet(1) |  |
| (4).Ammeter 0 to 30 AMPS(1) |  |
| (5).Volt Meter 300 Volts(1) |  |
| (6).Series Parallel Testing Board(1) |  |
| (7).Thermo Meter(1) |  |
| (8).Multimeter(1) |  |
| (9).Wire Gauge(1) |  |
| (10).Cappitary Gauge(1) |  |
| (11).Clamp Meter(1) |  |
| e. Equipments (Figures in bracket shows nos) |  |
| (1).Hermetric Compressor(1) |  |
| (2).Open Type Compressor(1) |  |
| (3).Rotary Compressor(1) |  |
| (4).Plate & Tube Type Condenser(1) |  |
| (5).Rod Type Condenser(1) |  |
| (6).Fin & Tube Type Condenser(1) |  |
| (7).Capillary Expansion Valve(1) |  |
| (8).Thermo static Expansion Valve(1) |  |
| (9).Filter Drier 50 Gm(1) |  |
| (10).Plate & Tube Type Evaporator(1) |  |
| (11).Fin & Tube Evaporator(1) |  |
| (12).Refrigerator(1) |  |
| (13).Window Air Conditioner(1) |  |
| (14).Split Air-Conditioner(1) |  |
| (15).Motor(1) |  |
| (16).Deep Freezer(1) |  |
| f. Electrical Components(Figures in bracket shows nos) |  |
| (1).Thermostat(1) |  |
| (2).Starting Capacitor 80 to 100 MFD(1) |  |
| (3).Running Capacitor 4,6,25,36,45 MFD(1) |  |
| (4).L.M.S. Relay Wire Type 1/8 HP(1) |  |
| (5).L.M.S. Relay Pin Type 1/8 HP(1) |  |
| (6).Combination Relay 1/8 HP(1) |  |

2

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|  | (7).Over Load Protector 2 Pin(1) | |  | |
| (8).Over Load Protector 3 Pin(1) | |  | |
| (9).Potential Relay(1) | |  | |
| (10).High Pressure Control(1) | |  | |
| (11).Low Pressure Control & Solnoed Valve(1)+ (1) | |  | |
| 6 | Academic Requirements for VDRA Programme (Enclose Bio Data as per the format given by TNOU) | | | (Please Tick) |
| VDRA-1: Refrigerator and Refrigeration | Degree/Diploma in Refrigeration and Air conditioning | |  |
| VDRA-2: Air Conditioner and Air Conditioning | Degree/Diploma in Refrigeration and Air conditioning | |  |
| VDRA-3: Special Cooling Systems | Degree/Diploma in Refrigeration and Air conditioning | |  |
| CNS -1Communication Skills | Degree in English | |  |
| LCS-1: Life Coping Skills | Degree in Social Work | |  |

I Dr/Shri/Smt certify that the above infrastructural facilities are available in the proposed Community College and the same may be verified at any time.

**Seal of the Organization Signature of Head of the Organization**

3