The 15-Day Certified Advanced AC, Refrigeration, HVAC & Cooling

Technology Professional Course

Class Location: Daffodil International University, Ashulia, Dhaka.

Friday: 2 classes (Morning & Evening)
Saturday: 1 Class
Class Hours: 3 Hours
Class Mode: Offline (Theory & Hands on Training)

Meet Trainers:

1. **SIFAT-BIN-AMIN**
   Certified Sales & Business Trainer | HVAC & MEP Solutions Specialist | Business Head
2. **Sofiqul Islam**
   HVAC Engineer (Technical In-charge) | Greenery Energy Solution Ltd

Get the Post Opportunities:

1. Job Placement Opportunity (Based on Performance)
2. Internship Opportunity (Based on Performance)
3. One Month Hands-on Training Opportunity in Industry
3. Networking Opportunity
4. Alumni Association Membership
5. Business Development Opportunity

Who Can Join This Program?

- background in **Mechanical Engineering**
- background in **Electrical Engineering**

- background in **Civil Engineering**
- background in **EEE (Electrical & Electronic Engineering)**
- background in **ME (Mechanical Engineering)**
- Professionals with **relevant work experience**

Module

Day	Item of Topic	Topic Session
Day 1	**Modern Refrigeration Principles & AC Classification**	• Different Types of AC Selection for Cooling Area • AC comparison: Type of AC (AHU/FCU), VRF/VRV
Day 2	**VRF Installation Process.**	Installation Area Selection Design Approval
Day 3	**Site Survey, Piping Design, & Layout**	• MEP drawing reading • Piping length & ODU-IDU height rules • Drain piping design
Day 4	**Copper Piping, Brazing, & Insulation**	• Copper pipe grading (Hard vs. Soft) • Insulation specs• Cutting, deburring, bending, and flaring (eccentric tool)
Day 5	**Power Wiring, Commissioning, & BMS**	Load calculation • Breaker sizing • 3-phase protection • Shielded Twisted Pair (STP) cabling• Daisy-Chain rules
Day 6	**Pressure Testing & Deep Proper Vacuum**	• High-pressure leak testing • Vacuum Testing • 3-step nitrogen pressure test

Day	Item of Topic	Topic Session
Day 7	**Additional Gas Calculation & Startup**	• Refrigerant formula: • Precise liquid line gas charging using scale & heating belt
Day 8	**Full-Load Commissioning & Performance**	•Pre-commissioning checklists • Oil return & frequency tests • Test run initiation • Recording pressure and current.
Day 9	**Fault Finding, Error Codes, & Repair**	• VRF error codes (E1-E9, F1-F9) • IPM module check • Diagnostic software tracking
Day 10	**Product Positioning & Market Analysis**	• Zero HVAC vs. global brand comparison • Life Cycle Costing
Day 11	**Estimation, BOQ, & Quotation**	• Material Measurement from AutoCAD drawings • Cost calculations
Day 12	**B2B Sales, Consultant, & Architect Networking**	• MEP ecosystem networking (developers, consultants, architects) • Sales pitch practice
Day 13	**1. HVAC & Refrigerator Business, Marketing, & Sales** **2. Digital Lead Generation & AMC Strategies**	Business models & China import/LC strategies Service center setup & spare parts inventory control • B2B digital marketing (Google Business, LinkedIn Lead Gen) • Annual Maintenance Contract (AMC) package design
Day 14	**Project Visit**	

Day	Item of Topic	Topic Session
Day 15	**Convocation & Certification**	Certificate Program Viva

Learning Outcomes

- **Technical Skills:** VRF piping diagram creation, nitrogen purging, high-pressure brazing, copper flaring, and triple Vacuum process.
- **Control Systems:** Central controller programming, BMS connection using Modbus/BACnet, and indoor-outdoor unit addressing.
- **Commissioning & Troubleshooting:** Additional refrigerant gas calculation, test runs, error code reading, and inverter PCB troubleshooting.
- **Business & Marketing (New Module):** HVAC & refrigerator dealership models, B2B/B2C sales, client support relationships, service teams, and warranty management.

Prepared By

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Training Operation
Greenery Institute of Science & Technology