

In **MEP Services (Building Services)** Construction Industry - Mechanical aspect will focus on Heating, Ventilation and Air Conditioning (HVAC), **HVAC** comes under Mechanical part which is responsible for **Design, Drafting**, Installing & Maintaining of Air Conditioning Units, Smoke controlling and exhausting comes under ventilation.

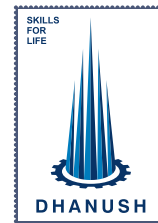
There is a huge demand for skilled MEP Professional in enormous domestic and international projects like Residential, Commercial, Airport, Schools, Hospitals, Malls and Other Building Structures in all upcoming Smart Cities through out the world.

**“DHANUSH” is 1st and only institute to become NSDC Approved Training partner in MEP.**



**N.S.D.C**  
**National Skill Development Corporation**

**Transforming the skill landscape**



**Dhanush EnggServices India Pvt.Ltd.,**  
[www.mepcentre.com](http://www.mepcentre.com)

Estd: 2004



We at **“DHANUSH MEP Centres”** have a strong team of 30 full-time skilled faculty members and 25 non teaching staff. We have been constantly training and placing candidates both in the domestic as well as international market with various reputed companies.

**Dhanush has been mandated to skill & place 1 Lakh youth by 2021.**



The focus of the company is to establish, manage and operate skill development centers across India which acts as a bridge between unemployed youth and the industries, seeking skilled manpower.

MEP Centre is committed to grooming future MEP leaders. The MEP Centre has associations to ensure that students gain industrial exposure and have the opportunity to interact with industry leaders, entrepreneurs, and faculty from some of the world's leading business and MEP Industries.

This makes the MEP Centre one-of-its kind in India. The industrial-academic linkage ensures that the programme is relevant, international in perspective and delivered according to industrial standards. In a short span of Programme, students get an understanding of the Industrial Needs and are equipped to take on challenging roles in some of the best companies in the world.



## Advantages:

MEP Centre is strategically located to create synergies between India, and the global business environment, with a backdrop of MEP thinking and practices from the West and the East. With a unique perspective on the emerging markets, our programmes enable students to capitalise on the opportunities of the global economy.

Dhanush EnggServices Pvt. Ltd developed this content in-house with committed and qualified Faculties and professionals. These courses are well structured, self-explanatory and user-friendly course content. You need not worry about stopping your day to day work. Whenever you have free time you can take these classes.

- ★ You can take this training any where and any time.
- ★ Structured and well refined Content.
- ★ User-friendly and self-explanatory.
- ★ Available at Affordable cost.
- ★ 24/7 you can take these courses for self training.
- ★ For any Technical clarifications “Dhanush MEP Centre” will support you online\*.
- ★ Train yourself according to your requirements and upgrade your skill.
- ★ Dependence on trainer not required and you will learn on your own.
- ★ Can prove yourself to employer with your additional professional skill knowledge.
- ★ Very good chances to demand/request for next level promotion.

**Sample Certificate**



### HVAC Design Course Curriculum

As per ASHRAE and ISHRAE Standards and Codes

1. Prelude to HVAC  
Introduction to HVAC-R  
Fundamentals & Modes Of Heat Transfer  
Basic Refrigeration System or VCR System  
Pressure Enthalpy Chart For VCR  
Refrigerants and Brines
2. Basic Components of Air-Conditioning and Refrigeration machines  
Accessories used in the System  
Function and Types of Compressor  
Function and Types of Condenser  
Function and Types of Expansion Valve  
Function and Types of Evaporator
3. Classification of Air-Conditioning System  
Ductable Split AC Working of Ductable Split AC with Line Diagrams  
Split AC Types of Split AC  
Window AC Working of Window AC with Line Diagrams.
4. Categories of Air Conditioning  
Categories of AC-1 All air system  
Categories of AC-2 All water system  
Categories of AC-3 Air-water system
5. Study of Psychrometric Charts  
Psychrometric Charts - Work Sessions  
Properties of air water mixtures
6. Heat Load Calculation  
Heat Load Calculations-1-Survey of Building & Cooling Load Steps  
Heat Load Calculations-2-Cooling Loads Identification & Estimation  
Heat Load Calculations-3-Finding Transmission Coefficient Values  
Heat Load Calculations-4-Heat Gains Through Walls, Glass, Roof, Partition  
Heat Load Calculations-5-Finding Ventilation requirement for IAQ  
Heat Load Calculations-6-ESHF, ADP & Air Flow Rate (CFM) Calculation  
Heat Load Calculations-7-Sample Project
7. Air Distribution System  
Duct-Definition & Terminology  
Duct Design Considerations  
Finding Duct sizes using Ductulator  
Duct sizing as per Aspect Ratio  
Duct Sizing Methods  
Selection of diffusers and grilles
8. Static Pressure Calculation  
Static Pressure Calculation
9. Hydronic System  
Hydronic System Introduction  
Hydronic System P & I Diagrams
10. Kitchen Ventilation System  
Kitchen Ventilation
11. Green Building System Concept  
Green Building Concept



### Course Demo Link

You can visit our website and request for demo at  
<http://www.mepcentre.com/courses/demopage/>

## Programme Enrolment

To be eligible for admission, you must fill this registration form:

[Http://www.mepcentre.com/courses/registration/](http://www.mepcentre.com/courses/registration/)

To complete MEP Online registration registration you need to send soft copies of

1. Passport size photos
2. Government of India Issued ID Card (Passport or Aadhar Card)
3. Address proof
4. Copies of Educational Certificates
5. Payment Receipt (scan/soft copy)

### Our payment Details:

Dhanush EnggServices India Pvt. Ltd.

Bank Of India - KukatPally, Hyderabad

AC No: 862420110000496

IFSC: BKID0008624

Once we receive this information we will start our enrolment process



### Course Fee / and other Details:

Dhanush will charge Rs. 12,000/- for each Course, for International Student this will be \$ 250 US Dollars. You can make this payment either online or we will provide our bank details so that you can make the payment and share payment receipt information with us.

Each course duration will be around 35 hours of seat time (continuously go through with audio narration). We will provide Online access for 30 days, if there are any special request we will extend this access for another one week. Any additional extension will be chargeable according to request and time of extension. We will be providing "Course Completion Certificate", which will be sent to your mailing address, provided in the registration form. If you are an Overseas student you need to pay actual courier charges in advance to get your certificate to your address.

It is not mandatory but you can attend an online assessment of 30 Multiple choice questions in 30 minutes. Based on this assessment, your can check your learning.

## Dhanush Offices:

### Administrative Office.

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