

In **MEP Services (Building Services)** Construction Industry - The main focus of **Process Piping** is to deliver Hot & Cold water and the Draining of waste water it is also known as PHE (Public Health Engineering).

There is a huge demand for skilled MEP Professional on enormous domestic and international projects like Residential, Commercial, Airport, schools, hospitals, Malls and other Building structures in all over upcoming Smart Cities through out world.

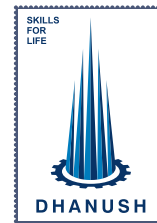
“DHANUSH” is 1st and only institute to become NSDC Approved Training partner in MEP.



N · S · D · C

National Skill Development Corporation

Transforming the skill landscape



Dhanush EnggServices India Pvt.Ltd.,
www.mepcentre.com

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. Need not to worry you need not to stop 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.
- ★ Trainer dependence will not be there, you will have opportunity to learn own .
- ★ Can prove yourself to employer with your additional professional skill knowledge.
- ★ Very good chances to demand/request for next level promotion

Sample Certificate



Process Piping Design Course Curriculum

1. Introduction of Piping Engineering:

- Definition of Pipe and piping
- Application of Piping
- Introduction of Process Plants
- Differences between tube, Pipe and its application
- Piping Standards
- Line specification and its importance
- Pipe ends, joining types and application
- Pressure class rating
- NPS, DN and OD

2. Pipe Manufacturing Methods

- Seam pipe
- Seamless Pipe
- Spiral Pipe
- U.O Pipe

3. Valves : ASME Standards

- Applications
- Operation
- Orientation
- Drawing symbols
- Dimensions
- Pressure Drop
- Back flow
- Standards
- Selections
- Specifications
- Types of valve – Gate, globe, ball, plug, pinch, diaphragm, PSV, PRV, Butterfly, NRV, Diverting, mixing, knife, etc.,



4. Flanges

- Pipe Flange
- Joining Methods
- Stub – In
- Stub – On
- Stub – End
- Flange standards
- Applications
- Drawing symbols
- Dimensions and pressure class rating selection
- Types of flanges (Slip on flange, Threaded, Orifice, Weld neck, Socket, Blind, Reduced, Lap joint, Flange, Spades & spectral blinds



Course Demo Link

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

****After completion of Course within 30 days we will assign project.**

5. Fittings

- Standards
- Dimensions
- Symbolic representations
- Applications
- Design concepts
- Specification
- Types. (90° LR & SR, 45° LR & SR.)
- Bends – 180° LR & SR, miter bends
- Branch connections – SS
- Straight (Equal Tees, Unequal Tees)
- Cross – Tees
- Reducers /Expands. (Concentric, Eccentric)
- Olets (Weldolets, Sockets, Thredolets, Latrolets, Elbolets, Sweepolets, Thermolets, Flageolets etc.)
- Couplings. (Full, Half, Reducing, Unions)
- Special fittings. (Traps, Expansion bellows, Expansion loops, Strainers,)

6. Gaskets

- Types of gaskets
- Selection @ process fluids
- Specification
- Standards
- Types of flange facings. (Flat, Raised face, RTJ.)
- Flange face finishing. (Tangent grooves, Radio graphics and Concentric grooves.)

7. Gaskets indication color representation

- Drawing generations
- Straight isometric
- Single rolling isometric
- Double rolling isometric
- Drawings Extractions.

8. Detailed MTO's

- Process Equipment
(Representation, Standards, Application)
- Static Equipment
(Horizontal Vessel, Vertical Vessel, Storage Tank, Heat exchangers)
- Rotary Equipment
(Pumps, Compressors, Blowers, Turbines, Reactors and Distillery Columns, Etc.)

9. PFD and P&ID's.

- Process Flow Diagram (PFD)
- Piping and Instrumentation Diagram (P&ID)
- Development of P&ID from formulae
- Symbolic representation
- Process flow
- Reading of P&ID (Line list, Equipment list)
- Development of piping diagrams with PFD and P&ID Instruments, loop diagrams, symbols
- Utility flow diagrams

10. General arrangement diagrams

- Extraction of isometrics and MTO's
- Development of detailed diagrams

11. Pressure drop calculations

- Straight pipes
- Valves, fittings and components
- Pressure Drop in
(Liquid line, Gasses lines and Multi Fluid lines)
- Fluid flow in Pipe line
- Types of flows.

12. Pipe supports.

- Importance of Supports
- Classification of supports.
(Rigid, Hanger, Flexible and Restraints)
- Standards
- Span and specification
- Applications
- Representation
- Rigid (Shoe, Saddle, Trunnion, Dummy leg, Base adjustment Support and Sleeper)
- Flexible (Constant load, Variable Load.)
- Restraints (Guide, Roller, Anchor Supports.)

13. Pipe Racks :

- Design Concepts
- Width and height calculations
- Spacing (spans)
- Pipe arrangements
- Process Pipelines
- Utilities
- Cable Trays

14. Pipe Thickness calculation: Schedule Selections

15. Pump Head.

- Pump head Calculations
- Closed System and Open system
- Design Concepts
- NPS Ha
- NPS Hr – Cavitations
- Applications
- Pumps Selection

16. Pump Piping Basic : All types of applications, Rooting Concepts of Piping for a pump.

17. Plot Plan

- Equipment layout
- Piping Layout
- Preparation equipment layout- Factors consideration, Battery limits and Bund walls
- Concepts
- Sample Layouts
- Importance

18. Piping Layout

- Complete Design Concepts
- Pumps
- Vessels
- Racks / Tracks
- Hazardous
- Head Room clearances
- Control Stations
- Drain Pipelines
- Vent Pipelines
- Process Pipelines
- Safety, Maintenance, Operation. Etc.,

Programme Enrolment Process:

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

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

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 USDs. You can make this payment either online. Or we will providing our bank details so that you can make a 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 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" will be sent to your mailing address provided in registration form. If you are an abroad 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

Dhanush EnggServices India Pvt Ltd,

2nd Floor, H.No:6-3-788/A/9,

Durga Nagar Colony, Ameerpet,

Hyderabad, Telangana, India -500016

Training Campus:

2nd Floor, Lenin Building,

Bhagyanagar colony, Kukatpally,

Hyderabad, Telangana, India-500072

Dhanush EnggServices India Pvt Ltd,

Door No:65/3997

Veluthamana Building, Near Seiken East End,

Ponoth Road, Kaloor, Cochin,

Kerala 682017.

H.No: 19/224/2,

Matha Complex, BSNL Quarters Road

Opposite to Merlin Hotel, Behind Railway Station

Thrissur Kerala -680004

www.mepcentre.com

www.meptrainings.com

www.facebook.com/mepcentre

Dhanush EnggServices India Pvt Ltd,

D-247, 2rd Floor, Above Jindal cloths,

Behind Metro Gate No.1 Lane

Laxmi Nagar, New Delhi-110092

Dhanush EnggServices India Pvt Ltd,

H.No. 12-21-31, 1st Floor,

Old Bank Road,

Above Shankar motors

Kothapeta, Guntur,

A.P - 522001,

Dhanush EnggServices India Pvt Ltd,

Dravidian University Kuppam.

Gurukulam Block II

Kuppam, Chittoor Dist,

A.P - 517425,