

# PLUMBING

DESIGNING & DRAFTING

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# MEP

HVAC  
ELECTRICAL  
PLUMBING

## MEP

### MECHANICAL

#### HVAC

- HEATING
- AIR CONDITIONING
- VENTILATION

#### FIRE FIGHTING

- WET RISER
- DRY RISER
- CLEAN AGENT
- SMOKE MANAGEMENT
- EXTINGUISHERS

#### PLUMBING

- WATER SUPPLY

#### LPG

- DRAINAGE
- STORM WATER
- RAIN WATER
- CENTRAL LPG

### ELECTRICAL

- LIGHTING SYSTEMS
- POWER SYSTEMS
- FIRE ALARM SYSTEMS
- EMERGENCY LIGHTING
- TELEPHONE SYSTEMS
- ELV SYSTEMS
- LIGHTNING PROTECTION

### EARTHING SYSTEMS

**INDIA'S 1<sup>ST</sup>** FULLY GULF PROJECT ORIENTED TRAINING COMPUS

## CERTIFICATE COURSE IN **PLUMBING DESIGNING AND DRAFTING**

Course Name: <b>Diploma in PLUMBING DESIGNING &amp; DRAFTING</b>	Course Code: SCE/PDD/101
	<b>Eligibility:</b> Diploma/B-Tech Selection: Based interview
<b>Duration :</b> As per class schedules	Course Fee:
Certification: CTDS, <b>Department of labour ,NCT, Govt of INDIA, New Delhi</b>	

### ABOUT THE TRAINER



Organization : **SHAD** Creative Education L.L.P  
Started in : 2011  
Years of Experience : 20+ Years in Consulting &  
9 Years in training  
Major Certifications : ISO 9001:2015, ISHARE, DAC,  
Autodesk, CTDS..Etc.  
Head Office : **SHAD Design** Bahrain



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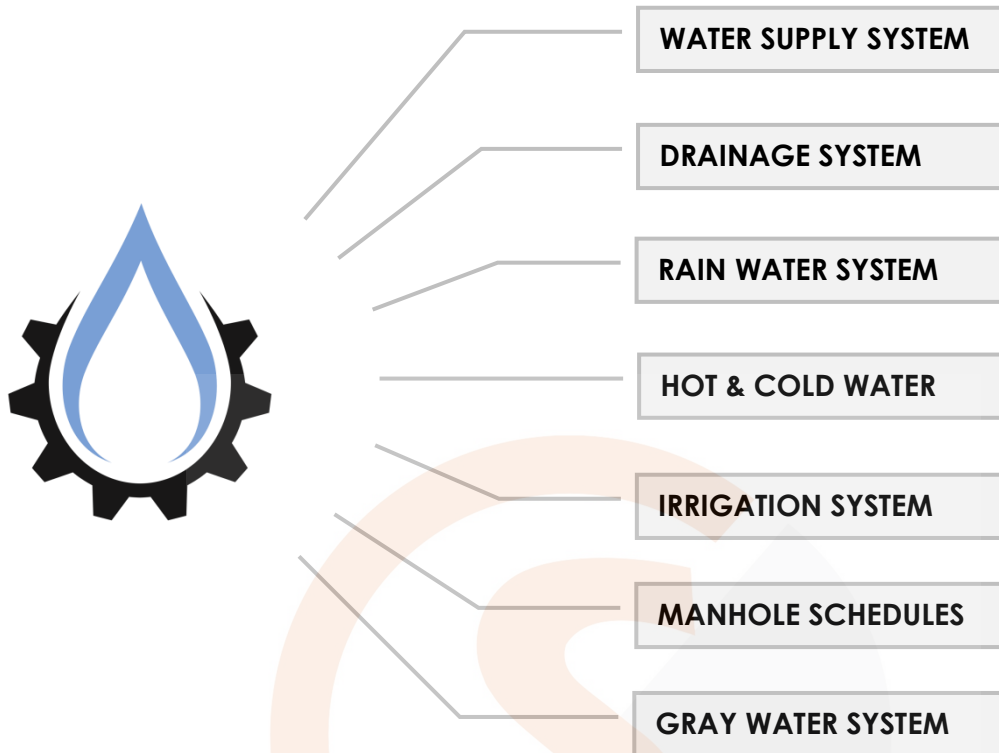
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## ABOUT THE TRAINING

This Diploma Certificate Training Program Covers the Full Design and Analysis of Plumbing Designing in Building Service from The Fundamentals To the final designs.



## PROJECTS FOR TRAINING

The following are the selection of projects; we have more than 30 Indian and GCC standard live projects for training and workouts@students can select the projects)

### **G+1 VILLA PROJECT** at DUBAI-U.A.E.

Plumbing Designing & Drafting

### **G+4 APARTMENTS** at DUBAI-U.A.E.

Plumbing Designing & Drafting

### **HOTEL & RESIDENTIAL TOWER** (4B+GF+46 Floor and roof) at Dubai -U.A.E

Plumbing Designing & Drafting

### **G+ 2 HOSPITAL** at Thrissure-Kerala

Plumbing Designing & Drafting.

### **G+ 4 RESIDENTIAL PROJECT** at Thrissure-Kerala

Plumbing Designing & Drafting.

### **G+ 2 RESIDENTIAL PROJECT** at Thrissure-Kerala

Plumbing Designing & Drafting.

## COURSE CONTENT

### INTRODUCTION TO PLUMBING SYSTEM:



- Cold Water System.
- Gray Water System.
- Sewage System.
- Hot Water Circulating System.
- Irrigation System.
- Storm Water System.

### WATER SUPPLY DESIGNING & CALCULATIONS:

- Introduction to Water supply systems.
- Sources of water and selections.
- Type of water supply systems.
- Common Sanitary Fixture Details.
- Total water demand calculation and selection as per (IPC&DEWA).
- Type of water tanks and selection.
- Water tank size calculation as per IPC standards.
- Water pump head calculation as per IPC standards.
- Type of water pipes and selection.
- Water pipe size calculation as per IPC codes.
- Hot water system selection.
- Type of water heating method's and selection.
- Hot water circulation pumps calculations.
- Water meter selection.
- Fire pump calculations.
- Manual hydraulic calculation.

### DRAINAGE DESIGNING & CALCULATIONS:

- Introduction to Drainage systems.
- Common Sanitary Fixture Details.
- Floor traps and selection.
- Type of traps and selections.
- Type of pipes (soil , waste & vent).
- Pipe size calculation as per municipality standards.
- Manhole schedules preparation.
- Rain water outlets and selections.

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- Storm water systems.
  - Parking drain systems.
  - AC drain systems.
  - Sewage treatment plants.
  - Sub pit details and selection.
  - Holding tank calculation.
  - Soakaway designing.
  - FIC Connection details.
  - Drainage pipe types and selection.
  - Drainage pipe size calculations.
  - Slope calculation.

#### **ESTIMATION OF PROJECTS:**

- Understanding the tendering requirements.
- BOQ (Bill of quantities).
- Preparing inquiry for suppliers and finalizing the suppliers.
- Final billing and quotation finalization.

#### **PLUMBING SOFTWARES:**

- Calculation of pipes Mc Quay pipe sizer.
- AutoCAD.
- Revit MEP (Additional if need)

#### **PLUMBING DOCUMENTATION:**

- Project Planning and Estimation.
- Preparation of BOQ.
- Tendering.



## CLASS TIMING

- **Class Time** : 04 Hrs. Daily (as per schedules)
- **Per Week** : 24 Hrs. (as per schedules)
- **Monthly Nearly** : 96 Hrs. (as per schedules)
- **For 4 Months** : 384 Hrs. 4 Months (200 Hrs. Theory+184 Hrs. Practical)

## CERTIFICATION & APPROVALS



## WHY SHAD

- **9+ years** of experience in training.
- GCC project oriented training.
- Placement assistance available in India and GCC countries.
- Embassy attestable certificate.
- CV preparation and life time free updation.
- More than **20 Years** of experience in Consulting and Building service.

**SHAD CREATIVE EDUCATION L.L.P**

**AL AMAL COMPLEX**

**SBI BUILDING**

**PANBAZAR TIRUR**

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**BUILDING NO 114**

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**SHAD CREATIVE EDUCATION L.L.P**

**HOLIDAY CITY CENTRE**

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FOUNDATION  
FOR YOUR CAREER**



**CREATIVE EDUCATION LLP**

AN ISO 9001:2015 CERTIFIED INSTITUTION

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