

FIRE ALARM & FIRE FIGHTING DESIGNING & DRAFTING



CREATIVE EDUCATION LLP

AN ISO 9001:2015 CERTIFIED INSTITUTION

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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 1ST FULLY GULF PROJECT ORIENTED TRAINING COMPUS

CERTIFICATE COURSE IN **FIRE FIGHTING DESIGNING AND DRAFTING**

Course Name: Diploma in FIRE FIGHTING DESIGNING & DRAFTING	Course Code: SCE/FF/101
	Eligibility: Diploma/B-Tech Selection: Based interview
Duration : As per class schedules	Course Fee:
Certification: CTDS, Department of labour ,NCT, Govt of INDIA, New Delhi	

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



www.shadce.com



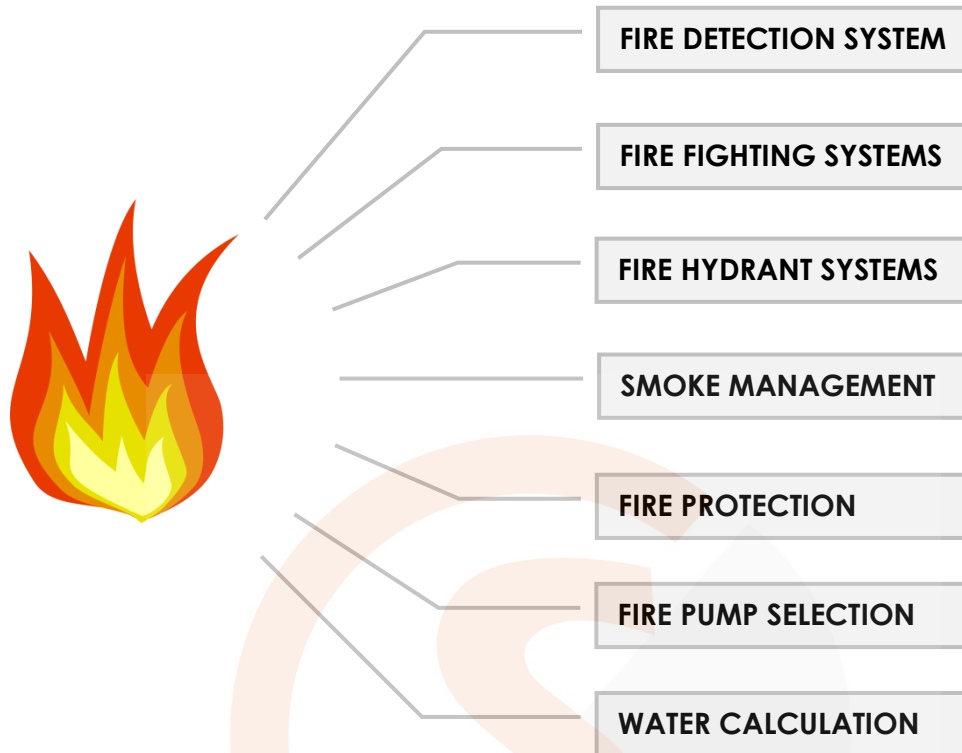
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ABOUT THE TRAINING

This Diploma Certificate Training Program Covers the Full Design and Analysis of Fire Detection & protection 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.

Fire fighting & Fire Alarm Designing & Drafting

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

Fire fighting & Fire Alarm Designing & Drafting

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

Fire fighting & Fire Alarm Designing & Drafting

G+ 2 HOSPITAL at Thrissure-Kerala

Fire fighting & Fire Alarm Designing & Drafting

G+ 4 RESIDENTIAL PROJECT at Thrissure-Kerala

Fire fighting & Fire Alarm Designing & Drafting

G+ 2 RESIDENTIAL PROJECT at Thrissure-Kerala

Fire fighting & Fire Alarm Designing & Drafting

COURSE CONTENT

INTRODUCTION TO FIRE DETECTION & FIRE PROTECTION SYSTEMS:

- Fire detection systems.
- Fire fighting systems.
- Fire water demand.
- Pump selections.
- Smoke management systems.
- Staircase pressurization systems.

FIRE DETECTION & ALARM SYSTEMS:


- Rules & regulations. (NFPA 72).
- Type of detectors and selection.
- Detector coverage area calculations.
- Selection of sounders and speakers.
- Voice evacuation systems.
- Fire alarm panel selections.
- Type of fire alarm wiring and selections.
- Manual call point selection and locations.

EMERGENCY LIGHTING & ESCAPE ROUTE DESIGNING:

- Type of emergency lighting system and calculation.
- Self-contained and central battery emergency lighting systems.
- Escape route designing.
- Worst Case Egress Lighting Estimation.
- Type of emergency lights and selections.
- Lux level calculations.
- Type of exit lights and selections.

FIRE PROTECTION SYSTEMS:

- Introduction to fire protection systems.
- Type of extinguishers and selections.
- FM 200 & Clean agent systems.
- Fire blanket selections.
- Special fire protection systems (Foam , water mist...etc)
- Type of sprinklers (Side wall, pendent...etc)

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- Sprinkler type and selection.
 - Sprinkler area coverage as per NFPA codes.
 - Sprinkler pipe sizing as per NFPA.
 - Type of sprinkler protection systems (Wet, Dry...etc)
 - Fire pump selection (Horizontal, Vertical).
 - Fire pump types and selections (Jockey , electrical & diesel)
 - Fire water tank sizing as per NFPA.
 - Fire pump room size calculations.
 - Fire hydrant selections and locations.
 - FHR (Fire Hose Reel) Selection and locations.
 - Fire Hose Reel pipe sizing.
 - Breeching inlet type and locations.

SMOKE MANAGEMENT SYSTEMS:

- Introduction to smoke management systems.
- Smoke extracts fan calculation.
- Basement smoke extract fan calculations.
- Make up air fan selections.
- Lobby & staircase pressurisation fan selections.

ESTIMATION OF PROJECTS:

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

FIRE FIGHTING & FIRE ALARM SOFTWARES:

- Dialux for Lux calculation.
- AutoCAD.
- Revit MEP (Additional if need)

FIRE FIGHTING & FIRE ALARM 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

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**'A STRONG'
FOUNDATION
FOR YOUR CAREER**



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