



# INDUSTRIAL FIRE & SAFETY

HIG-13, Dharma Vihar, Khandagiri, Bhubaneswar

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Syllabus for 6 month course (Advance Diploma in Fire & Safety Engineering)

( Total paper -6 )

Total Marks = 600

Theory- 6×40 mark = 240 marks  
Practical - 6×60 marks = 360 marks

Total = 600 marks

Time – Theory = 120 hr (120 days × 1hr)  
Practical = 180 hr (120 days × 1 hr 30 min.)

Total = 300 hr

Class- 5 days/1week  
1 month=20 days class  
6 month=20 × 6= 120 days

Sl. No.	Subject	Theory	Practical
1.	Basic Chemistry of Fire	Fundamental, What is Fire, History of Fire Basic element of fire etc	PT, Jumping, Running. Exercise
2.	Fire Science	Triangle Fire, Reaction, point Ignition of Temperature, Extinguishing method of Fire, Fire point, Spontaneous point etc.	Squad drill
3.	Fire Control Technology	Extinguishing media, water, foam, dry powder, Co <sub>2</sub> gas, chemical etc	Hose drill, Uses of Extinguishers
4.	Fire Risk Assessment and First-Aid	PPE, small gear, special gear, salvage, various hazard places, Extinguishers, hydrant, First-aid Installation of Firefighting equipment, etc.	Pump drill Uses of hydrant
5.	Fire Safety, Hazard & Disaster Management	Rescue, Uses of various equipment like branch hose, nozzle, adapter, collecting head, dividing . Operation of hydrant and extinguishers, disaster management, etc.	Rescue drill not and ropes
6.	Pump and BA Set Operation	Operation and types of pumps, priming system BA set uses and maintenance, priming of ladder etc.	Ladder drill and BA set operation