OPJS UNIVERSITY, CHURU (RAJASTHAN)

Syllabus

For

Certificate in Fire Safety

(CFS)

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School of fire & safety
Opjs University, Churu (Rajasthan)
2014-15

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Details of Syllabus

Duration: 6 Months
Eligibility: 10th Standard or Equivalent

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<tr>
<th>S.No.</th>
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<th>M.M.(T.&amp;P.)</th>
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<td>1.</td>
<td>CFS-01</td>
<td>Fire Tech &amp; Design</td>
<td>70+30</td>
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<td>CFS-02</td>
<td>Construction Safety</td>
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CFS-01: Fire Tech & Design

Unit-I

Classification of fire Portable fire extinguishers Pumps and primers Foam and foam making equipments

Unit-II

Hose and hose fittings Water relay systems Breathing apparatus Small gears

Unit-III

Fire protective clothing Ladders Ropes and lines, bends & hitches Fire prevention

Unit-IV

Special appliances Fire fighting codes and standards Electrical fire hazards Structures under fire.

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CFS-02: Construction Safety

Unit-I
Site planning and house keeping Types of Scaffolds Scaffold Erection & dismantling Scaffold Inspection

Unit-II
Safety in scaffolding – an overview Investigation of scaffold accident Provisions on scaffold under the building other construction workers central rules, 1998 Safety in excavations, trenching and shoring

Unit-III
Road work and pilling operation Ladders Use of safety nets and fall protection systems Concrete and concert foams and shoring

Unit-IV
Importance of civil work in construction industry Material handling Important safety requirements and inspections.

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CFS-03: Industrial Safety

Unit-I
Fundamentals of industrial safety Different types of industries Different types of safety systems and equipments Safety policy and safety terminology

Unit-II
Work permit systems Job safety analysis Hazop study Fault tree analysis

Unit-III
Emergency planning Safety inventory systems Safety survey Occupational health hazards Safety organization and duties of a safety officer

Unit-IV
Accident prevention methods Safety committee Accident investigation Safety management systems Laws related to safety (Factories ACT 1948 Explosive ACT, Electricity ACT etc.)

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CFS-04: Environmental Safety

Unit I
Air pollutants – Pollution sources - automobile pollution-hazards of air pollution-concept of clean coal combustion technology, fly ash-control of combustion in combustion chambers- ultra violet radiation, infrared radiation, radiation from sun-hazards due to depletion of ozone - deforestation-ozone holes-automobile exhausts-chemical factory stack emissions - CFC.

Unit II

Unit III

Unit IV

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