

**POST GRADUATE DIPLOMA (SAFETY MANAGEMENT- FIRE TECHNOLOGY) – PART TWO**

**Optional Early Certificate: - N/A**

**Syllabus:-**

Sr. No.	Module Code	Name of Module	Credits	Total Marks
1	PDSF121	Advance Fire Control Technology	5	100
2	PDSF122	Fire Risk Assessment	5	100
3	PDSF123	Fire Fighting Drills	6	100
4	PDSF124	Entrepreneurship Development	4	100
5	PDSF125	Practical & Project Work	6	100

**Module Name: ADVANCE FIRE CONTROL TECHNOLOGY**

1. Introduction
2. Forest Fire Management
3. Fire and Forest Fire
4. Common Fire Hazards
5. Principles of Fire Protection
6. Fire Detection
7. Fire Suppression
8. Dynamics of Fire
9. Fundamental of Fire Science
10. Control of Fire
11. Firefighting and Fire Prevention
12. Fire Fighting System and Equipment
13. Fire Hazards

**Module Name: FIRE RISK ASSESSMENT**

**Unit-I**

Introduction, Understanding fire: How and why people die in fires, Human behaviour in fire: How people behave in emergencies, Legislative requirements: The Regulatory Reform (Fire Safety)

Order 2005, Fire hazards & risks, Plan Drawing, Brief look at drawing to scale, and how plans can be used to good effect

### **Unit-II**

Fire risk assessment structure and layout, Means of escape principles: Basic requirements and what to look for, Fire signage: National requirements, Fire Alarms & fire detection: Basic components, and testing, Emergency lighting: When it is required, Basic components, and testing, Alternatives to emergency lighting

### **Unit-III**

Emergency Plans & Staff Training, Highly Flammables & LPG, and Fire fighting equipment requirements, Fire resisting construction & compartmentation, Active fire safety for building protection: Sprinklers & Automatic roof vents

### **Unit-IV**

The process of fire risk assessment, Fire risk assessment recording and review procedures, the potential for pollution arising from fires, Measures to prevent and reduce fire pollution

**Module Name:** FIRE FIGHTING DRILLS

**Module Name:** ENTREPRENEURSHIP DEVELOPMENT

#### **1. ENTREPRENEURIAL BEHAVIOUR**

- Programme Clarity-Sharing Expectations and Unfreezing
- Data Collection about self
- Introduction to Need System and Motivational Pattern of Entrepreneur
- Risk Taking Behaviour
- Analysing Motive Strength
- Personal Efficacy
- Conceptualizing Entrepreneurial Values
- Achievement Planning
- Tolerance to ambiguities and commitment to entrepreneurial goal
- Leadership and Influencing ability entrepreneurial confidence
- Entrepreneurial goal setting

#### **2. ENTERPRISE LAUNCHING**

- Environmental Analysis and Market Study
- Project Selection/Formulation and Presentation
- Project Appraisal
- Financial Analysis

- Forms of Enterprise
- Foreign Collaboration

### **3. ENTERPRISE MANAGEMENT**

- Basic Management Concepts
- Production Management
- Materials Management
- Financial Management Including Costing and Accounting Practices
- Marketing Management
- Personnel Management
- Problem Solving and Innovation
- Business Laws

**Module Name:** PRACTICAL & PROJECT WORK