

## **Module 21 Fire Smoke & Odour Decontamination**

Written by Jeff Charlton 08700 789 999

Please email for cost and availability [tech@999team.org](mailto:tech@999team.org)

This module will provide the delegate with the basic knowledge to undertake the cleaning and sanitation of a fire damaged building and its content.

The course identifies the different types of fire, smoke and soot residue and their corrosive and odorous effects together with the different decontamination and restoration procedures.

### **Syllabus**

- 1.) Health & Safety issues**
  - PPE
  - Asbestos at the scene
  - MSDS and COSHH
  
- 2.) Physics of fire**
  - Types of fire
    - Low oxygen
    - High Oxygen
    - Protein
  
  - Types of soot residue
  - Chlorides and corrosion
  - Measurement of chloride
  - Measurement of soot and contamination
  - Laminar and turbulent air dispersion
  - Soot logging and adsorption
  - Interstitial movement
  - Soot drop out
  
- 3.) Stages of restoration**
  - Triage
  - Movement and storage
  - Protection and controls
  - Standards and compliance testing
  
- 4.) Cleaning procedures**
  - Chemical use
  - Foaming agents
  - De foaming agents
  - Steam
  - Steam and power jetting
  - Non abrasive cleaning
  - Abrasive techniques
  - Power vac jetting
  - Solvent
  - Ultrasonic cleaning techniques

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### **5.) De Odorizing**

- Use of chemical paring agents
- Ozone
- Bake out
- Sealers
- Re odorizing (Fragrance)

### **6.) Clearance**

- Visual
- Deposits wipe
- Particulate
- Odour
- Lab analysis