

## **Module 6      Decontamination/Restoration Technician**

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### **Foreword**

This module combines the criteria from client and management of legal requirements, safety, and hazard and risk assessments. The decontamination protocol is designed by management in module 5 and this module (6) provides the technician with safe working and quality control procedures.

### **1. Health & safety Legislation**

- a. Overview
- b. Specific responsibilities
- c. Necessity

### **2. Overview of CBR agents and effects**

- d. Overview of Risk & Hazard associated with CBR agents
  - i. Acute effects
  - ii. Chronic
  - iii. Routes of ingress
  - iv. Prophylactic care
- e. PPE Personal Protection Equipment. (Limitations & Use)

### **3) Site Documentation**

- a. CDM
  - i. Designer
  - ii. Planning Supervisor
  - iii. Principle Contractor
- b. Central location display (Availability)
- c. Contractor details
- d. Client details
- e. Health & Safety Policy
- f. COSHH Data
- g. Risk & Hazard Assessments
- h. Method statement
- i. Equipment documentation
- j. Personnel Records
- k. Site attendance log (Personnel)
- l. Emergency procedures
- m. Emergency contact details
- n. CDM documentation where applicable
- o. Government or HSE special instructions/Notification
- p. Details of nearest Medical assistance
- q. Site safety officer & route to contact
- r. Name & contact details of site first aid Site medical cabinet (location) keys

### **4) Site Visitors**

- a. Appointment Requirements
- b. Authorising authorities
- c. Competence & Certification
- d. PPE & Suitability

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- e. Insurance & liability issues
- f. Tool box talk
- g. Escort rules
- h. Waiver (legal)

### **5) Employee Safety**

- a. Selection of employees
  - i. Physical fitness and suitability
  - ii. Medicals
  - iii. Psychological testing
- b. Team selection & leadership skills
- c. Heat stress
- d. Dehydration
- e. Working parameters
  - i. Live stress testing in PPE
  - ii. Production rate in and out of PPE
  - iii. Breaks and procedures
- f. Confined Space & Isolated work**
- g. Legal obligations
- h. Safety & common sense
- i. Accident or Emergency
- j. Notification
- k. Confined space working procedures
- l. Buddy Buddy systems
  - i. 123 Rule
  - ii. Extraction procedures

### **6) Daily employee Inspection/medical**

- a. Procedure
- b. Notification

### **7) Types of PPE explained**

- a. Level A GTCPS (*gas tight chemical protection suite*)
  - i. SCBA types safety, working limitations
  - ii. Heat stress
  - iii. Re-Breathers
  - iv. Cooling procedures and equipment
  - v. Supply air and filtration
  - vi. Level B
  - vii. Level C
  - viii. Level D
- b. **Respirators Types**
  - i. Full face
  - ii. Powered (PAPR)
  - iii. Piggy
  - iv. Disposable
  - v. Filter types
  - vi. Protection factors
- f. **Use & Maintenance**
  - i. Fit Testing
  - ii. Cleaning

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- iii. Inspection procedures
- iv. Self
- v. Supervisor
- vi. Manufacturers agent
- vii. Maintenance

### **8) Initial Works protocol**

- a) Install decontamination procedures
- b) Make safe
- c) Establish emergency controls
- d) Undertake Triage procedures

### **9) Records Storage & Use of PPE**

- a. Face Fit Testing
- b. Filter type
  - i. Inspection
  - ii. Loading
  - iii. Change regime
- c. PAPR
  - i. Battery charging
  - ii. Flow rates
- d. Cleaning
  - i. Decontamination procedures
- e. Storage
  - i. Daily Inspection
  - ii. Training
- f. Weekly inspection
- g. Training
- h. Monthly inspection
  - i. Training
- i. Records
- j. Accountability

### **10) Re Breathers Specific**

- a. Decontaminating units end of shift
- b. Ice
- c. Cooling jackets

### **11) Type of Suit**

- a. Cleaning or disposal procedures
- b. Colours used and code
- c. Material specification
- d. Type protection factor(specification)

### **12) Types of Glove**

- a. ID
- b. Gauntlet
- c. Glove
  - i. Type
  - ii. Material
  - iii. Sizes
- d. Safety procedures
- e. Under gloves
- f. Latex issues

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### **13) Boots**

- a. ID
- b. Colour
- c. Type
- g. Material
- h. Overshoes
- i. Transit procedures

### **14) Fitting & use of PPE**

- a. Size & fit
- b. Inspection
- c. Cleaning & maintenance
- d. Use of tape
  - i. Acceptable benefits
  - ii. Shortfalls

### **15) Personnel Site Decontamination Procedure**

- a. Site of Decontamination Unit
- b. Travelling to decontamination unit
- c. Route In – Out
- d. Construction parameters
  - i. Storage
  - ii. Charging facilities
  - iii. Pressure differentials
  - iv. Testing & certification
  - v. Heating & water temperature
  - vi. Self assessments (injury)
  - vii. Don & Doffing procedures
  - viii. Soap & towels
  - ix. Underwear
  - x. Cooling jackets
  - xi. Waste Collection

### **16) Site Decontamination Unit**

- a. Description
  - i. 3 stage air lock
- b. Procedures

### **17) Emergencies**

- a. Accidental Exposure
- b. Emergency procedures
- c. Emergency Evacuation
- d. Pear Shape Procedures
  - i. Notification
  - ii. Support

### **18) Technician Physical Condition**

- a. Physical fitness
- b. Medical
- c. Respiratory assessments
- d. Fat & Fitness
- e. Prophylactic care certification
- f. Visual inspection cuts grazes, flu symptoms

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g. Inoculations

### **19) Daily employee Inspection/medical**

- a. Procedure
- b. Notification

### **20) Working Conditions**

- a. Times & Breaks
- b. Decontamination
  - i. Heat stress
  - ii. Cold stress
  - iii. Dehydration & fluid intake
  - iv. Warning Signs

### **21) Confined Space & Isolated work**

- a. Legal obligations
- b. Safety & common sense
- c. Accident or Emergency Notification
- d. Confined space working procedures
- e. Buddy Buddy systems
  - i. 123 Rule
  - ii. Extraction procedures

### **22) Maximising Tools and equipment**

- a. Use of approach angles
- b. Distance and Radii failures
- c. Pressure & flow rates
- d. Dwell periods
- e. Significance of QC

### **23) Standard of works**

- a. Clear objectives
- b. Written instructions
- c. Site induction
- d. Procedure training

### **24) Quality Of Work**

- a. Importance of Quality work
  - i. Public confidence
  - ii. Economy & Economics
  - iii. Safety
- b. Falsifying Records & Camouflage
  - i. Personal liabilities
  - ii. Public liabilities

### **25) Quality Control Protocols**

- a. Typical applications and necessity
  - i. Examples of failure
  - ii. List benefits
  - iii. Domino effect (explanation)
- b. Identification of Q/C parameters
  - i. Importance
  - ii. Significance
- c. Measurement techniques
- d. Accountability
- e. Monitoring and compilation

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- f. Record keeping
- g. Audit records
- h. Proof

### **26) Improvements & Suggestions**

- a. Procedures
- b. Joint Benefits
- c. Management route
- d. Acceptance notification

### **27) Building Enclosures**

- a. Air Locks
- b. 3 stage units
- c. Enclosures
- d. Material use
  - i. Polythene
  - ii. Board
  - iii. Shrink wrap
  - iv. Glue
  - v. Tape
  - vi. Telescopic tools
  - vii. Framework Generally
  - viii. Testing Integrity
- e. Fire Risk
- f. Fire precautions

### **28) Negative Pressure**

- a. Calculating requirements
- b. Measurement
- c. Safety controls
- d. Recording data
- e. Equipment requirements
- f. Roving heads
- g. Exhaust
- h. Filter specification
- i. Changing filters & safety issues
- j. Emergency procedures

### **29) Improvements & Suggestions**

- a. Procedures
- b. Joint Benefits
- c. Management route
- d. Acceptance notification

### **30) 24 Hour (Continuous Working)**

- a. Quality control problems
  - i. Improving procedure
  - ii. Accountability failures
  - iii. Recommendations
- b. Shift change requirements
  - i. Transferring information
  - ii. Overlap requirement
  - iii. Managing information
  - iv. Accountability

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### **31) Records & Audit**

- a. Template forms
- b. Management systems
- c. Procedures
- d. Timelines and agreements