

Section E

Decontamination/Restoration Technician

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 D and this module 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
- 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
 - 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

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
- 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
- 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

31) Records & Audit

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

