



Hot Work Safety

SUBJECT MATTER EXPERT(SME)- INTERNSHIP TRAINING

Language: English, Hindi

Duration: 94 Hrs.

1. Introduction

- Definition of Hot Work
- Importance of Hot Work Safety
- Regulatory Requirements and Standards

2. Common Types of Hot Work

- Welding and Cutting
- Soldering
- Brazing
- Grinding and Sanding e. Torch Applied Roofing f. Other Hot Work Processes

3. Hazards Associated with Hot Work

- Fire Hazards
- Explosion Risks
- Toxic Fumes and Gases
- Burns and Injuries
- Property Damage

4. Hot Work Permit System

- Purpose of Hot Work Permits
- When a Permit is Required
- Permit Issuance Process
- Responsibilities of Permit Issuer, Performer, and Supervisor e. Permit Renewal and Expiry

5. Pre-Work Preparations

- Hazard Assessment
- Fire Watch Requirements
- Ventilation and Air Monitoring
- Personal Protective Equipment (PPE)
- Equipment Inspection and Maintenance
- Check list Preparation

6. Fire Prevention and Control

- Fire Extinguisher Types and Usage
- Emergency Evacuation Procedures
- Fire Alarms and Communication
- Hot Work Area Fire Safety

7. Safe Work Practices

- Relevant Regulations and Standards
- Controlled Access Zones
- Hot Work Equipment Operation
- Worksite Housekeeping
- Emergency Shutdown Procedures e. Communication Protocols

8. Training and Qualifications

- Competency Requirements for Hot Work
- Training Programs and Resources
- Periodic Refresher Training

9. Case Studies and Lessons Learned

- Real-life Examples of Hot Work Incidents
- Analysis of What Went Wrong
- Preventive Measures

10. Quiz and Assessment

- Multiple Choice Questions
- Practical Demonstration (if applicable)
- Review of Key Concepts

11. Conclusion

- Recap of Key Points
- Encouragement of Reporting Unsafe Conditions
- Commitment to Hot Work Safety

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