

Decontamination Techniques and Applications

November 15-16, 2021 ♦ "Live" Online Training



This 2 ½ course and will enable participants to distinguish various types of decontamination methods available and determine which method is best used for a specific application.

The trainee will be able to:

- Determine the different types of contaminants
 - Describe how contamination occurs
 - Describe the different types of decontamination methods available
 - Determine which decontamination method is best used
 - Describe the advantages of decontamination
 - Explain the theory of operation behind each decontamination method
 - Understand proper vs. improper techniques for each method
 - Describe the commonly used materials for each process
 - Understand the training required for each method
 - Explain the effectiveness of the various methods
- Identify the necessary safety precautions for each method
 Describe the waste generation and disposal practices for each method
 Describe the advantages and disadvantages of each method

COURSE TOPICS

INTRODUCTION

- Objective of Class

HISTORY

- Types of contaminants
- How contamination occurs
- Factors in determining proper decontamination method
- Advantages of decontamination

METHODS OF DECONTAMINATION

MECHANICAL

Wiping

- Theory of operation
- Proper & improper techniques
- Common materials used
- Training required
- Effectiveness
- Safety precautions
- Waste generation & disposal
- Advantages & disadvantages

Hand Held Abrasion Devices

Grinders, Needle guns, Nibblers, Scabblers, and other hand held devices, discuss the following for each:

- Theory of operation
- Proper & improper techniques
- Common materials used
- Training required
- Effectiveness
- Safety precautions
- Waste generation & disposal
- Advantages and disadvantages

Abrasive Blasting

Grit, Steel Pellets, Glass Beads, Plastic Pellets, Natural Products, and CO2 (Dry Ice); discuss the following for each:

- Theory of operation
- Equipment overview
- Training required
- Types of grit
- Applications
- Effectiveness

Abrasive Blasting (Con't)

- Safety precautions
- Waste generation & disposal
- Advantages & disadvantages

Sponge Blasting

- Theory of operation
- Equipment overview
- Training required
- Types of sponge
- Applications
- Effectiveness
- Safety precautions
- Waste generation & disposal
- Advantages & disadvantages

Hydroblase/Water Blasting

- Theory of operation
- Equipment overview
- Training required
- Applications
- Effectiveness
- Safety precautions
- Waste generation & disposal
- Advantages & disadvantages

UltraSonic

- Theory of operation
- Equipment overview
- Training required
- Liquids used
- Applications
- Effectiveness
- Safety precautions
- Waste generation & disposal
- Advantages & disadvantages

Strippable Coatings

- Theory of operation
- Equipment overview
- Training required
- Materials used
- Applications
- Effectiveness
- Safety precautions
- Waste generation & disposal
- Advantages & disadvantages

CHEMICAL

- Theory of operation
- Chemical agents used (discuss most commonly used agents in use today)
- Applications

- Effectiveness
- Safety precautions
- Waste generation & disposal
- Advantages & disadvantages

ELECTROCHEMICAL

- Theory of operation
- Equipment overview
- Training required
- Materials used
- Applications
- Effectiveness
- Safety precautions
- Waste generation & disposal
- Advantages & disadvantages

OTHER METHODS

Discuss new technologies and other methods which have shown positive results but are still under development.

- Biological
- Laser & Heat Sublimation

REVIEW & OPEN DISCUSSION

Brief review of decontamination methods discussed along with recap of advantages and disadvantages. Open the floor for general discussion and possibly address individual needs of attendees if desired.

HOW TO REGISTER ...

Course Fee: \$895

Visit our website at www.tmscourses.com and register online, or call 860-738-2440.

Registration questions can be emailed to info@tmscourses.com.

