

Insulation Installation & Repair



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This five-day course is designed to provide participants with the basic knowledge and skills to safely complete pipe insulation repairs, removal and installation at the job site. The course provides both theory and practical application. The course is designed for 8-10 participants.

I. Introduction

II. Theory of Heat Transfer and Moisture Effects

- · Methods of Heat Transfer
- · Moisture Migration
- · Application of Various Types of Insulation

III. Tools of the Trade

- · Insulation Tools
- · Proper Use and Care
- ·Safety Procedures

IV. Material Handling and Storage

- · Receiving
- ·Stacking
- ·Storage
- · Movement

V. Pipe Characteristics

- · Types
- ·Sizes
- ·Uses
- · Relationship of Pipe Size and Insulation Size

VI. Installing Calcium Silicate Pipe Insulation

- ·Safe Handling
- ·Storage

- Making Accurate Cuts
- · Install Single-Layer and Double-Layer Pipe Insulation

VII. Installing Flexible Foam Insulation

- · Proper Tool Use
- · Procedures for Installing

VIII. Installing Fiberglass Pipe Insulation

- · Insulation Characteristics
- · Sizing Requirements
- · Characteristics of ASJ Jacketina

IX. Installing Rigid Foam Insulation

- · Proper Tool Use
- ·Insulation Handling and Storage
- · Measuring, Cutting, Installing, and Sealing
- · Cryogenic Installation
- · Expansion Joints
- · Contraction Joints
- · Vapor Stops

X. Cement and Fabric Finishes and Mastics

- · Proper Use of Finishing Tools
- · Cleanup and Protection Procedures
- · Limitations of Cements, Fabric Finishes, and Mastics

XI. Adhesives and Their Uses

- ·Identification
- · Application
- ·Uses

XII. Sheet Metal Lagging

- · Sheet Metal Tools Identification and Application
- · Fabrication and Installation Methods
- · Flashing and Sealing Techniques