Mechanical Insulating

MODULES

The modules listed below are included in the Trainee Guide. The following ISBNs are for ordering individual modules only.

Orientation to the Trade (5 Hours)
(Module ID 19101-18) Provides an overview of the insulation industry, including how and why insulation is used, safety factors related to insulation, and common insulation-specific tools.

Material Handling, Storage, and Distribution (2.5 Hours)
(Module ID 19104-18) Covers receiving, stacking, and storage of insulation materials, as well as material movement on the jobsite.

Characteristics of Pipe (5 Hours)
ISBN 978-0-13-448318-4
(Module ID 19105-18) Provides an overview of different pipe types and their uses, pipe sizing methodology, and the relationship between pipe sizes and insulation sizes.

Flexible Foam Insulation (25 Hours)
(Module ID 19201) Covers proper tool use and procedures for installing flexible foam insulation, including how to cut and install flexible foam insulation on pipe fittings, valves, flanges, equipment, and air ducts.

Air Duct Systems (7.5 Hours)
(Module ID 19302) Covers the identification of various duct systems and their associated components.

Blanket Insulation for Ducts (7.5 Hours)
(Module ID 19302) Covers fiberglass blanket insulation to ducts and apparatus and discusses vapor-sealed blanket insulation facings.

Board Insulation for Ducts (20 Hours)
ISBN 978-0-13-489775-0
(Module ID 19203) Covers fiberglass board insulation applications, such as cutting fiberglass board insulation to fit over standing seams and stiffeners, vapor-seal applications, and cutting and installing fiberglass board insulation on round or oval ducts.

Cements and Fabric Finishes (10 Hours)
(Module ID 19208) Covers the proper use of finishing tools, cleanup and protection procedures, and the limitations of cements, fabric finishes, and mastics.

Insulation Adhesives (5 Hours)
(Module ID 19304) Covers the identification, application, and use of adhesives.

Flexible Foam Insulation

This module covers the identification, application, and use of flexible foam insulation. It includes information on how to cut and install flexible foam insulation on pipe fittings, valves, flanges, equipment, and air ducts. The module also explains pipe sizing and the relationship between pipe sizes and insulation sizes.

Air Duct Systems

This module covers the identification of various duct systems and their associated components. It includes information on fiberglass blanket insulation, vapor-sealed blanket insulation facings, and the relationship between pipe sizes and insulation sizes.

Blanket Insulation for Ducts

This module covers fiberglass blanket insulation to ducts, including vapor-sealed blanket insulation facings. It discusses the proper use of finishing tools, cleanup and protection procedures, and limitations of cements, fabric finishes, and mastics.

Board Insulation for Ducts

This module covers fiberglass board insulation applications, such as cutting fiberglass board insulation to fit over standing seams and stiffeners, vapor-seal applications, and cutting and installing fiberglass board insulation on round or oval ducts.

Cements and Fabric Finishes

This module covers the proper use of finishing tools, cleanup and protection procedures, and limitations of cements, fabric finishes, and mastics.

Insulation Adhesives

This module covers the identification, application, and use of adhesives. It includes information on how to properly use adhesives for various applications.

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**Industrial Boiler Systems** (7.5 Hours)
(Module ID 19306) Describes boilers and related equipment, and their insulation requirements.

**Mineral Wool Insulation** (12.5 Hours)
(Module ID 19205) Describes how to measure, cut, and score mineral wool insulation. Discusses attachments used on mineral wool, installation methods, sealing requirements, and how to use pin welding equipment.

**Jacketing Systems** (12.5 Hours)
(Module ID 19313) Describes the purposes and the types of insulation jacketing available for mechanical systems. This module also explains how to work with various kinds of organic, polymeric, and other types of jacket not made from rigid sheet metal.

**Jacketing Fabrication — Pipe and Fittings** (42.5 Hours)
(Module ID 19310) Covers the identification and applications of pipes and pipe fittings and describes types of pipe and fitting jacketing, along with layout installation procedures and securements.

**Jacketing Fabrication — Vessels and Equipment** (25 Hours)
(Module ID 19311) Covers the identification of vessel and equipment jacketing, along with layout, fabrication, installation procedures, and securements.

**Removable and Reusable Flexible Insulation Covers** (12.5 Hours)
(Module ID 19314) Provides a detailed introduction to removable and reusable flexible insulation covers, and explains the construction and installation of commercially-fabricated and kit insulation covers.

**Specialized Insulation Systems** (5 Hours)
(Module ID 19308) Describes special-application insulation systems, including low-temperature and prefabricated panels; refractory insulation; soft pads and pre-shaped removable covers; preinsulated systems; spray, foam, and pour-in-place insulation; fire stops; noise and sound control systems; and cryogenic applications.

**Fundamentals of Crew Leadership** (22.5 Hours)
(Module ID 46101) The course covers basic leadership skills and explains different leadership styles, communication, delegating, and problem solving. Jobsite safety and the crew leader’s role in safety are discussed, as well as project planning, scheduling, and estimating.