



TECHNICAL INSULATION GLOBAL TRAINING PROGRAMS

OUR SITE | YOUR SITE | VIRTUAL



ADVANCING INDUSTRY EDUCATION

Owens Corning's commitment to the insulation sector extends beyond material science and manufacturing to include career education for engineers, contractors and installers. As the insulation industry evolves to meet the emerging needs of energy-efficient, sustainability-focused facilities, education is foundational to achieving high-performing insulating systems across the supply chain – from specification to install and inspection.

The Owens Corning Technical Insulation Training Center in Pasadena, Texas, USA, is our latest investment in educating the next generation of industry professionals. Equipped with state-of-the-art equipment, advanced technologies and seasoned experts, the 22,000 ft² (2,040 m²) space complements our purpose-built training center in Tessenderlo, Belgium, to help expand training across the globe.

Real-World Experience

Our training centers combine classroom education with hands-on experience across a wide range of applications from cryogenic to high temperatures, including special modules focused on fire protection, acoustics, buried piping and corrosion mitigation. Our training programs are designed to benefit a range of industry stakeholders, including owners, contractors, channel partners, engineers, specifiers and inspectors.

Multi-Use Centers

Owens Corning training centers also serve as hubs for special industry gatherings and are ideal for team meetings held in conjunction with exhibitions and trade shows. The facilities can also be used for application test staging, practical application development and as platforms for thought leadership.

Training That Fits Industry Needs

In addition to our flagship training center sites, Owens Corning offers mobile training centers and virtual training capabilities. This nimble, customer-focused approach to education enables us to deliver training opportunities wherever they are needed.

We are proud to develop and deliver standardized and customized training programs that support the industry professionals who work with the Technical Insulation products contributing to high-performing mechanical and industrial process systems.

"Whether a customer wants insulation education delivered at our facility, at their location or through digital learning, Owens Corning is committed to delivering training relevant to customers' needs and situations."

Brandon Stambaugh
Technical Services Director





U.S. TECHNICAL INSULATION TRAINING CENTER

826 East Sam Houston Pkwy S
Pasadena, Texas 77503, USA

Experience

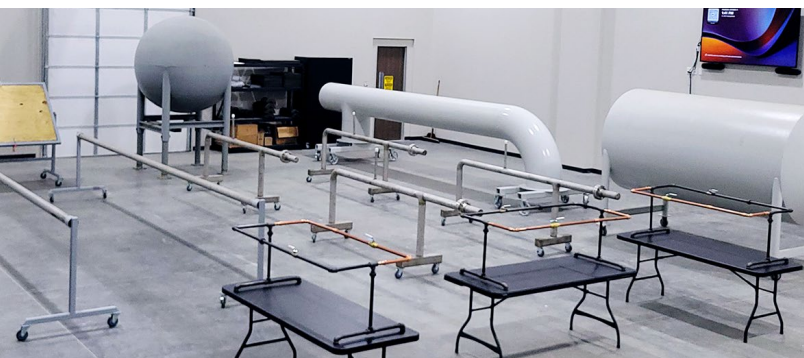
Visitors can expect a memorable experience starting from the welcoming arrival at our facility. The Training Center is digitally integrated and Wi-Fi enabled, ensuring that visitors are connected. Conditioned workspaces provide comfort while engaging in technical demonstrations and application displays. Guests will enjoy both theoretical and hands-on activities that make their visit interactive and educational.

Site Features

- 22,000 ft² (2,040 m²) Facility
- Multi-use Design
- 3,000+ ft² (280+ m²) Application Floor

Equipment

- 5 ft Horizontal Tank
- 6 ft Diameter Sphere
- 24-in. Pipe with E90, Tee
- 12 ft x 3-in. Pipe Rigs
- Tabletop Copper & Steel Rigs
- Duct and Air Handling Rigs
- Fabrication Equipment



TESSENDERLO FOAMGLAS® INSULATION TRAINING CENTER

Albertkade 1, 3980 Tessenderlo, Belgium

Experience

Visitors to our facility can enjoy a comprehensive tour of the production area, exploring how our products are made. They can then proceed to our well-equipped meeting rooms for discussions and collaborations. Additionally, guests are treated to engaging science demonstrations and can explore our digital showroom featuring application displays. The experience is further enriched with sessions that combine both theory and practice, ensuring a holistic understanding of our offerings.

Site Features

- 186,000 m² (2 million ft²) Production facility
- 180 m² (1,940 ft²) Showroom
- 630 m² (6,780 ft²) Training Center with multi-use design

Equipment

- 1.5 m OD Horizontal tank (dia 1500mm)
- 24-in. pipe with E90, Tee, Redu, Flange, Valve
- 10-in. pipe with E90, Tee, Redu, Flange, Valve
- 4-in. pipe with E90, Tee, Redu, Flange, Valve
- 3-in. pipe with E90, Tee, Flange, Valve
- Tabletop Tank Head
- Mock-up for steel deck & continuous support roofs
- Mock-up for pitched roofs
- Mock-up for wall applications
- Bio-circle Vario SL Compact tool cleaner (sustainable tool cleaner)
- Fabrication equipment



TYPICAL TRAINING PROGRAMS

A typical visit to one of our training centers will include a tour of our facilities, and all of our programs may include both theoretical and practical training options. Learning about Technical Insulation products and systems, and the science behind how insulation works, and why it is needed in our classroom complement our practical, hands-on sessions.

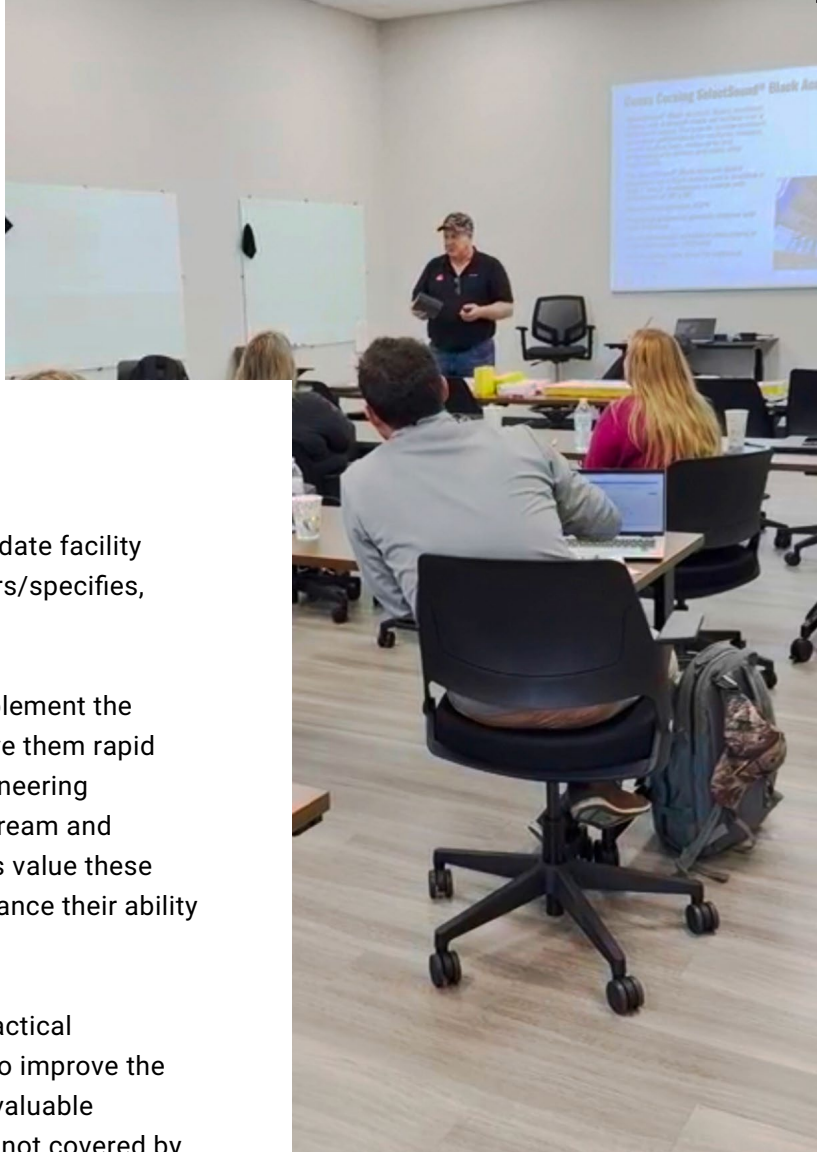


The practical sessions cover safe handling and working with insulation materials, accessories and offer the opportunity to install insulation on pipe rigs in a realistic range of sizes and settings. We consider the most common problems that can be encountered on a job site and demonstrate the techniques to easily solve these.

“Since industry technologies and processes are constantly developing, there is always something new to learn in the mechanical insulation world. That makes our job exciting.”

Cassie Perryman
Technical Services Engineer




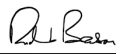



WHO SHOULD ATTEND

Programs are designed for and can be adapted to accommodate facility owners, maintenance teams, contractors/installers, engineers/specifiers, distribution teams, and inspectors.

Often, companies choose installation demonstration to supplement the education of their new-hires, students and apprentices to give them rapid familiarization with technical insulation systems. Major engineering companies and owners of industrial processes such as upstream and downstream oil and gas facilities, and pharmaceutical plants value these demonstrations for their engineering staff because they enhance their ability to design and specify better performing insulation systems.

Commercial mechanical and HVAC contractors can learn practical installation techniques, and material features that can help to improve the installation processes and efficiencies. Inspectors will gain valuable experience in how to evaluate installations in detail typically not covered by many standard industry courses.

	FOAMGLAS®	ID #: 2307-06 Date: July 11, 2023 Location: Ft. Lauderdale FL
<h3>Certificate of Participation</h3>		
<p>John Doe XYZ INSULATION</p>		
<p>Has successfully participated in the Training Session FOAMGLAS® Chilled Water Systems</p>		
 Bobby Ferrell Sr. Technical Support Specialist	 Timothy Bovard Sr. Technical Services Lead	
<small>Disclaimer – Training Sessions are not intended to replace the policies and procedures enforced by your Company or the Customer, and in no way makes Owens Corning, and/or its affiliated companies and their respective shareholders, members, directors, managers, officers, employees or agents liable for any failure by any of your personnel to follow said policies and procedures.</small>		

WHAT WILL MY TEAM ACHIEVE?

Our goal is to provide a platform that helps everyone who specifies, installs, or inspects insulations systems the opportunity to enhance their abilities and help their companies to improve installed system quality, installation efficiency and time.

In recognition of participation, each attendee will be awarded a certificate of completion at the end of each workshop. Certificates may be obtained for general topics, specifications, or specific projects.

"As specifying engineers, installers and inspectors retire, we have a responsibility to help prepare the next generation of workers. Customers need people with the expertise to specify, install and maintain insulating systems designed to stand up to the extreme conditions involved in industrial processes."

Bobby Ferrell
Technical Service Engineer

MOBILE TRAINING AND SITE SUPPORT

The maximum benefit from the training programs will be experienced in the training center locations, but where it is not possible for clients to travel to our training centers, our technical services unit can be brought to your offices or job site. Depending on location, Owens Corning may deploy our mobile training unit or work with local teams to prepare for onsite training program.

VIRTUAL TRAINING

If our site or your site is not an option, many of our classroom programs may be adapted to virtual setting. Contact us to see how we might be able to help your team. We have a wide range of slide decks for all different applications, movies and animations showing our systems and a detailed drawing library for specific installation procedures.



CUSTOMIZED TRAINING

Typical training Includes a facility tour; safety briefing; introduction to insulation; review of specifications, codes and standards; and installation of insulation for various application types and conditions. Some of our training options also include special topics. Training takes place in both classroom and application settings, for an engaging combination of theoretical discussions, demonstrations and hand-on activities.

Whether you're an owner, engineering company, distributor or contractor, Owens Corning training can be tailored to your business and learners. Choose from the wide range of training programs below, with the option to expand or consolidate lessons based on relevance to your team.

FIBERGLAS™ PIPE & MECHANICAL INSULATION

Introduction to Insulation

- Fundamentals of Heat Transfer
- Fundamentals of Acoustics
- Fundamentals of Condensation Control
- Freeze Protection
- Vapor Retarders
- How do Insulations Function (Fibrous & Cellular)
- NAIMA 3E Plus Application
- Types of Insulation
- Material Standards (ASTM)
- Owens Corning Products
- Insulation Critical Product Characteristics & Methods
- Insulation Selection Criteria

Specifications, Guide Specifications, Codes, & Standards

- ASHRAE/IECC
- Guide Specifications
- Highlights of Codes

Installation

- Insulation PPE & Safety
- Installation Tools
- Insulation Accessories
- Pipes-Chilled Water Installation Details
 - Proper Storage of Insulation
 - Role of Pipe Insulation in Chilled Water Systems
 - Pipe Insulation Product Details (Dimensions, Vapor retarder, Closure System)
 - Pipe Insulation Mastics and Tapes
 - Common Tools of The Trade
 - Insulation Thickness Determination and Importance
 - Nesting of Pipe Sections
 - Installation of Straight Sections
 - Installation of Fittings
 - Installation of Valves
 - Installation of Hangers
 - Installation of Special Equipment
 - Installation at Terminations
 - Installation of Vapor Dams (Importance, Method, & Frequency)
 - Field Applied Jackets & Covers.
 - Installation of FlexWrap and Pipe&Tank

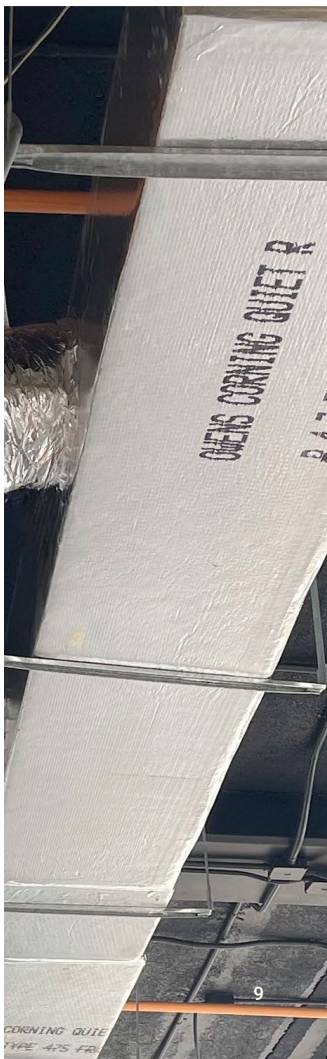


FIBERGLAS™ PIPE & MECHANICAL INSULATION (CONTINUED)

Installation	
Pipes- Ambient and Hot System Installation Details	
Proper Storage of Insulation	
Role of Pipe Insulation in Hot Systems	
Pipe Insulation Product Details (Dimensions, Vapor Retarder, Closure System)	
Pipe Insulation Mastics and Tapes	
Common Tools of The Trade	
Insulation Thickness Determination and Importance	
Nesting of Pipe Sections	
Installation of Straight Sections	
Installation of Fittings	
Installation of Valves	
Installation of Hangers	
Installation of Special Equipment	
Installation at Terminations	
Field applied Jackets & Covers.	
Installation of FlexWrap and Pipe&Tank	
Polymer Pipes in Plenums	
What is a Plenum Space	
Fire Risks in Plenums	
Code Compliance Requirements (Polymer Pipes)	
Compliance with OC FG Pipe Insulation (PVC/CPVC & PP)	
- Installation Requirements	
- Plenum Wrap Alternative	
- Frequently Asked Questions	
Commercial Equipment & Ducts Installation details	Metal Building Insulation Insulation
Insulation Type Options	Role of Insulation in Metal Buildings
Board Insulation Installation Methods	Climate Zones
Blanket Insulation Installation Methods	Code Compliance Requirements (MBI)
FlexWrap and Pipe&Tank Installation Methods	NAIMA 202-96 & NIA 404 Requirements
Vapor Barrier Considerations for Chilled Systems	Job Site Material Storage Recommendations
Commercial Acoustic Insulation Installation details	Roof Installation Methods
SelectSound Board and Blanket Information	Single layer Faced Insulation
Board Insulation Installation Methods	Double layer Insulation
Blanket Insulation Installation Methods	Single layer with Liner System
Industrial Equipment & Tanks Installation Details	Single layer with filled Cavities
Insulation Type Options	Through fastened Insulated Roofs
Board Insulation Installation Methods	Wall Installation Methods
Blanket Insulation Installation Methods	Single Layer Compressed
FlexWrap and Pipe&Tank Installation Methods	Single Layer in Cavity
Vapor Barrier Considerations for Chilled Systems	Double layer Insulation
	Vapor Barrier Fastening Methods
Fabricated Insulations	
UtiliCore HP5	
UtiliCore L-Series	
Fiberglas Fabrication Board	
Thermal Range System	

FIBERGLAS™ AIR DISTRIBUTION INSULATION

Introduction to Insulation
Fundamentals of Heat Transfer
Fundamentals of Acoustics
Fundamentals of Condensation Control
Vapor retarders
How do Fibrous Insulations Function
NAIMA 3E Plus Application
Types of Insulation
Material Standards (ASTM)
Owens Corning AD Products
Insulation Critical Product Characteristics & Methods
Insulation Selection Criteria
Proper Storage of Insulation
Insulation Thickness Determination and Importance
What is a Plenum Space
Fire Risks in Plenums
Competitive Insulation Comparative
Specifications, Guide Specifications, Codes, & Standards
ASHRAE/IECC
Climate Zones
Guide Specifications
Highlights of Codes
ICC/IBC/IRC/IECC/IMC
IAPMO
NAIMA
SMACNA
Installation / Fabrication
Insulation PPE & Safety
Installation Tools
Insulation Accessories
Closure Methods
Tapes and Mastics
Outward Clinching Staples



FIBERGLAS™ AIR DISTRIBUTION INSULATION (CONTINUED)

Installation / Fabrication

Rooftop Duct Insulation Installation Method

Duct Wrap

- Properties and Component roles of Duct Wrap
- Package label Thickness & R-Value
- Dual Role Purpose of Duct Wrap (DW & Industrial Blanket)
- Stretch-Out Calculations
- Installation on Different Geometry Ducts
- Installation on Fittings and Transitions
- Installations Around Hangers and Supports
- Installation Obstacles (Pipes and other Mechanicals)
- Installation Over Other Insulating Materials for Increase R-Value
 - Double Layer Duct Wrap
 - FRK DW over FRK DW
 - FRK DW over UF DW
 - Duct Wrap over Duct Board

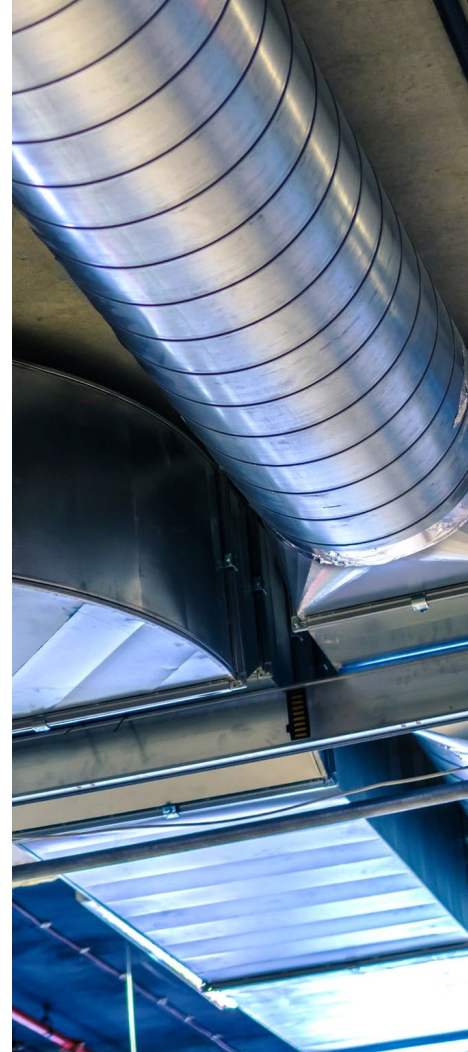
Installation at Terminations

Commercial Equipment & Ducts Installation Details

- Insulation Type Options
- Board Insulation Installation Methods
- Blanket Insulation Installation Methods

Duct Board

- Tools Review
 - Hand Groove Tools
 - Glassmaster 220/420 & Associated Tools/Knives
 - Staplers
 - Tapes and Mastics
 - Knives
 - Angle Templates for Fittings
 - Hole Cutters
 - Cuts-All Shiplap Tools
- Glassmaster Grooving Machine
 - Duct Board Product Review
 - Machine Overview and Safety
 - Knives/Tools and Machine Setup
 - Grooving 4ft Modules
 - Module Fabrication and Closure Methods
 - Fittings, End-Caps, Offsets, and Transitions Fabrication
 - Duct Board AHU Plenum Fabrication
 - Branch Collars and Flex Duct Branch Attachment
 - Duct Board Duct System Installation



“Owens Corning feels that it’s important to be able to provide the industry and our customers with the best possible information to make an educated decision on what product – thickness and so forth – is going to best serve the needs and the goals that you’re trying to meet in this building.”

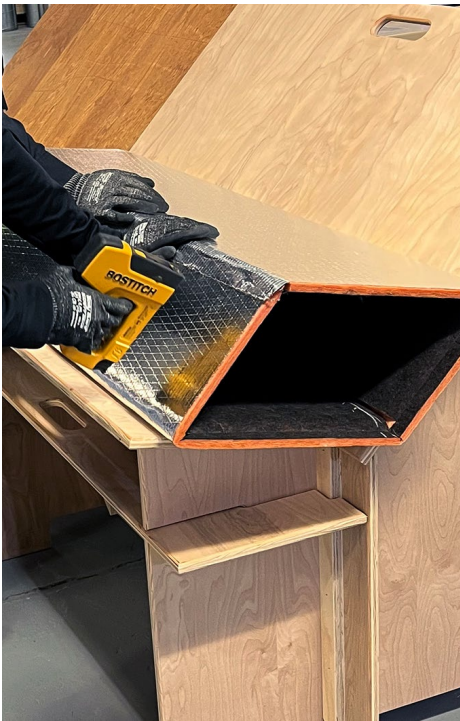
David Burd
Technical Manager

FIBERGLAS™ AIR DISTRIBUTION INSULATION (CONTINUED)

Installation / Fabrication
Duct Board
Hand Groove Tools
Knives/tools Identification
Grooving 4ft Modules
Module Fabrication and Closure Methods
Fittings, End-Caps, Offsets, and Transitions Fabrication
Duct Board AHU Plenum Fabrication
Branch Collars and Flex Duct Branch Attachment
Spiral Duct Liner
Tools Review
Hand Groove Tools
Glassmaster 220/420 & Associated Tools/Knives
Tapes and Mastics
Knives
3, 4, & 5 Gore Elbow Templates
Reducer / Transition Templates
Glassmaster Grooving Machine
Duct Board Product Review
Machine Overview and Safety
Knives/Tools and Machine Setup
Grooving 4ft Round liner Modules
Grooving 4ft Oval liner Modules
Grooving 10ft Round liner Modules
Grooving 10ft Oval liner Modules
Module Fabrication and Closure Methods
Installation round Pipe Liner
Installation Oval Pipe Liner
Fabrication of Fittings, End-Caps, Offsets, and Transitions
Installation of Fittings, End-Caps, Offsets, and Transitions
Duct T Fabrication
Hand Groove Tools
Knives/Tools Identification
Fittings, End-Caps, Offsets, and Transitions Fabrication
Duct T Fabrication

“By doing the application together in our training center, an engineer can learn how fabrication techniques may help to lower the installed cost of different insulating materials in a process application.”

Bill Tolliver
Product Technical Manager



FOAMGLAS® CELLULAR GLASS INSULATION

Factory tour	Factory visit content
Introduction	
Overview of Manufacturing Process	
Basic health & safety	
Tour of FOAMGLAS® Production Facility *	

*Only available in Tessenderlo training center.

Laboratory demonstrations	Standard content
Compressive-Strength Testing	
Closed-Cell Measurement	
Density Measurement	
Thermal Conductivity Measurement	
Smoke Development/Fire Propagation	
Water Vapor Permeability	
Water Absorption	
Properties of Accessories	

FOAMGLAS® insulation theory	Standard content
Introduction to FOAMGLAS® Insulation	
Key FOAMGLAS® Insulation Properties	
Application Overview	
Water in Insulation	
Prevention of Insulation Failures	
Prevention of Corrosion Under Insulation (CUI)	
FOAMGLAS® Insulation Above-Ambient Systems	
FOAMGLAS® Insulation Cryogenic Systems	
Fire Protection	
Owens Corning Accessory Products	
Owens Corning Value-Added Services	



FOAMGLAS® CELLULAR GLASS INSULATION (CONTINUED)

Handling FOAMGLAS® insulation	
Working Safely with FOAMGLAS® Insulation	
Safety Data Sheets & Warning Symbols	
Safe use of Tools	
Demonstration of FOAMGLAS® pipe insulation	
Inspection of Pipe-Surface Condition	
Inspection of Insulation and Accessory Materials	
Verification of Documentation for Materials	
Verification that Correct Material, Coatings, Fab Adhesives Used	
Verification of Physical Condition of Materials	
Installation of Straight Sections of Insulation	
Square cuts Using a Miter Box	
Demonstration of Joint Staggering in Single-Layer Systems	
Selection & Application of Joint Sealants: Cryogenic, Chilled Water, Hot	
Securement of Insulation Using Filament Tape or Metal Banding	
Fitting Insulation to Irregular Surfaces (Rubbing, Gouging)	
Application of Insulation Over Trace Heating	
Repair or Replacement of Damaged Pieces	
Installation of Fittings: Elbows, T-Pieces, Reducers	
Fabricating T Pieces by Making Angled Cuts with a Miter Box	
Installation of Valve & Flange Boxes	
Terminations: End of Day & Vapor Stops	
Penetrations: Sealing	
Joint staggering in Double-Layer Systems	
Application of PITTCOTE® Mastic Coatings	
Application of PITTWRAP® Jacketing	
Application of pre-jacketed Insulation Sections	
Hot Work Additional Skills	
Application of Insulation Over Trace Heating	
Simple Terminations	
Penetrations: Sealing	
Application of PITTCOTE® Mastic Coatings	
Application of PITTWRAP® Jacketing	
Cold/cryogenic Work Additional Skills	
Simple Terminations	
Cryogenic Vapor Stops	
Penetrations: Sealing	
Application of PITTCOTE® Mastic Coatings	
Application of PITTWRAP® Jacketing	
Mixing & Application of Adhesives	
Inspection of FOAMGLAS® insulation systems	
Acceptance Criteria for Fabricated FOAMGLAS® Insulation	
Acceptable Joints	
Acceptable Joint Sealing	
Acceptable Repairs	
Acceptable PITTCOTE® Mastic Coating Thicknesses	
Acceptable Penetration Sealing	
Acceptable Vapor Stopping	
FOAMGLAS® Insulation Training Courses for your Special Requirements	
Pre-project/Startup Re-Familiarization	
Pre-project/Startup Familiarization with New Products / Techniques	
Client Specification Familiarization	
Facilities for Comparative Insulation Installations	
Support for & Integration Into, your Existing Training Program	

EXAMPLES OF KEY SKILLS TAUGHT FOR WORKING WITH FOAMGLAS® INSULATION



Application of joint sealants



Spreading of joint sealants to full-depth



Accurate cutting



Correct staggering of joints



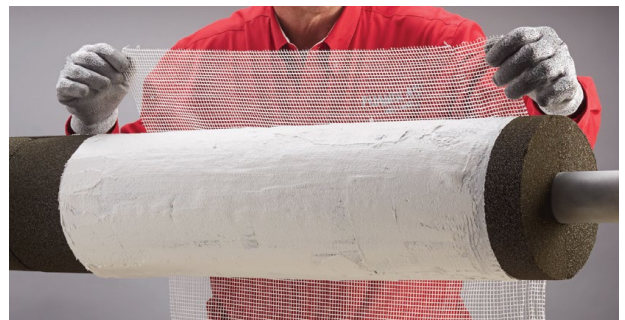
Use of factory pre-fabricated fittings



Production of more-accurate joints



Application over trace heating



Application of scrim and mastic



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