



Educational Programs and Training

Onsite Training:

In his wide range of experience in the SPF industry, Mason Knowles has managed SPF applicator training programs for national sprayfoam material suppliers and was the Manager of Gusmer's Technical Department responsible for all equipment service, training and troubleshooting, in over 60 countries. Knowles personally has trained hundreds of applicators in the art of spraying polyurethane foam and is available once again to come to your job site for custom training.

Whether you have an experienced crew that could use some pointers in saving time and money or beginners who require intensive hands on instruction on sprayfoam technique, maintenance and troubleshooting of equipment, storage and handling and safety issues, Mason Knowles can assist your crew to spray better quality jobs while saving time and money.

SPFA Accreditation:

As an approved provider of SPFA Accreditation Courses, **Mason Knowles Consulting** can come to your facility to teach SPFA Accredited Courses to your crew or staff.

The SPFA Accreditation Program and courses are developed by a large cross section of the SPF industry including experienced contractors, technical personnel of material and equipment suppliers, inspection and engineering companies. Courses reflect the best practices of many sprayfoam applications including insulation, air barriers, below grade, roofing, low density and high density sprayfoam.

Becoming an SPFA Accredited Applicator tells the sprayfoam world that you and your crew have gone the extra step to learn as much as possible of the industry's best practices and to provide safe and professional SPF applications. It gives your customers the added security that you have the knowledge to install sprayfoam applications in accordance with the industry's best practices.

Mason Knowles SPF Educational Courses:

Course 101 R - Fundamentals of SPF & Covering Systems for Roofing

This two-day course covers the basics of sprayfoam used in roofing applications.

Chapters include:

- Health, Safety and Environmental Aspects of Spray Polyurethane Foam and Coverings
- Industry Testing Standards and Approvals
- Spray Polyurethane Foam Chemistry, Physical Properties and Safety
- Spray Polyurethane Foam Equipment
- Spray Polyurethane Foam Applications and Workmanship
- Coatings Classification Chemistry, Physical Properties and Safety
- Coating Equipment
- Coatings and Coverings, Coverage Rates, Characteristics and Applications
- Job Site Quality Control

- Inspections
- Maintenance, Repair and Renewal of Spray Polyurethane Foam Roofing Systems

In addition to the 101R course, each participant receives CD Rom with following AY Documents:

- A Guide for Selection of Protective Coatings Over Sprayed Polyurethane Foam
- Roof Systems (AY-102)
- Spray Polyurethane Foam Systems for New and Remedial Roofing (AY-104)
- Spray Polyurethane Foam Blisters – Their Causes, Types, Prevention and Repair (AY-107)
- Spray Polyurethane Foam Aggregate Systems for New and Remedial Roofing (AY-110)
- Moisture Vapor Transmission (AY-118)
- Glossary of Terms Common to the Spray Polyurethane Foam Industry (AY-119)
- Spray Polyurethane Foam Estimating Reference Guide (AY-121)
- The Renewal of Spray Polyurethane Foam and Coating Systems (AY-122)
- Maintenance Manual for Spray Polyurethane Foam Roof Systems (AY-127)

Course 101 BE: Fundamentals of Spray Polyurethane Foam for the Building Envelope:

This two-day course covers the basics of polyurethane foam applications for the building envelope.

Chapters include:

- Health, Safety and Environmental Aspects of Spray Polyurethane Foam and Coverings
- Industry Testing Standards and Code Requirements
- Spray Polyurethane Foam Chemistry and Physical Properties
- Spray Polyurethane Foam Equipment
- Building Science Concepts
- Spray Polyurethane Foam Applications and Workmanship
- Thermal & Ignition Barriers
- Air Barrier Systems and Sealant Foams
- Low Density Spray Polyurethane Foam
- Moisture Vapor Transmission
- Job Site Quality Control
- Below Grade Application
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In addition to the course each participant receives a CD containing the following documents:

- Spray Polyurethane Foam Systems for Cold Storage Facilities Operating Between -40 °F and +50°F – AY-111
- Spray Polyurethane Foam for Building Envelope Insulation and Air Seal – AY-112
- Contractor/Applicator Handbook – AY-113
- Moisture Vapor Transmission – AY-118
- Glossary of Terms Common to the Spray Polyurethane Foam Industry – AY-119
- Spray Polyurethane Foam Estimating Reference Guide – AY-121
- Thermal Barriers for Spray Polyurethane Foam Industry – AY-126
- Guideline for Insulating Metal Buildings – AY-134
- Spray Polyurethane Foam for Exterior Subgrade Thermal and Moisture Protection – AY-140
- Spray Polyurethane Foam and Cathedral Roofs and Cathedralized Ceilings – AY-141