

TRAINING PLAN

Advanced Techniques

High Performance systems and PAQ + S Accreditation



PROGRAM OF AFFILIATION FOR QUALITY SAFETY



COURSE DESCRIPTION

This training is intended for experienced roofers as well as those who work in the roof waterproofing field. Any installer who wishes PAQ + S accreditation must successfully complete this course.

Qualifications:

Possession of a minimum of two years experience in the installation of modified bitumen membranes and, preferably, the successful completion of Basic Techniques training from Soprema.

Content:

Participants in this course acquire general training in the classic systems* as well as advanced training in systems which are mechanically fixed, adhesive adhered and self-adhesive. Participants will be able to further their basic understanding, and to improve their knowledge of membrane characteristics, work site safety, industry requirements and proper installation methods for all our products.

Objective:

Upon completion of this course, participants will have the requisite knowledge to efficiently install all types of SBS elastomeric bitumen membranes.

Duration:

20 hours

Evaluation Method:

Multiple choice theory test.

Practical evaluation of self-adhesive and heat-welded membrane installation.

Note: The theory exam may be given orally, upon request.

* Classic roofing systems = Membranes attached by heat-welding or hot bitumen.

GENERAL OBJECTIVES

Understanding of the installation of modified bitumen membranes by these methods: hot bitumen, heat-welded, self-adhesive, adhesive adhered and mechanically fastened.

Understanding of the safety regulations regarding the usage of tools necessary to installation for all types of modified bitumen membranes.

Understanding of the general characteristics of elastomeric bitumen membranes.

To train installers whose quality of work will be regarded in the industry as the finest available.

SPECIFIC OBJECTIVES

Participants will be able to identify the characteristics of the various elastomeric bitumen membranes.

Participants will be able to identify the waterproofing product accessories which are compatible with elastomeric bitumen membranes.

Given any situation, participants will be able to state the surface conditions and preparations required for the installation of elastomeric bitumen membranes.

Given any situation, participants will be able to identify fire risk areas on a roof.

Given any situation, participants will be able to state the preventive measures required for the installation of elastomeric bitumen membranes.

Participants will be able to state the installation requirements for elastomeric membranes which are particular to specific weather conditions (for example, winter conditions).

Participants will be able to state requirements relative to overlapping and sequencing of membranes.

Participants will be able to waterproof standard surfaces and upstands with elastomeric bitumen membranes using a propane torch.

Participants will be able to waterproof standard surfaces and upstands with sanded elastomeric bitumen membranes using hot SEBS bitumen, a mop and a specialized roller.

Participants will be able to waterproof standard surfaces and upstands with sanded elastomeric bitumen membranes using a cold adhesive, a scraper and notched trowels.

Participants will be able to waterproof standard surfaces and upstands with self-adhesive elastomeric bitumen membranes using a heavy roller and an electric hot air blower.

Participants will be able to waterproof roofing details, specifically ridges, drains and vents, using appropriate tools and materials.

REVIEW OF BASIC SAFETY AND FIRE PRECAUTIONS (theoretical)

Risks/preventive measures

FR products

Self-adhesive membranes

Using hot asphalt and kettles

Using hazardous materials

Monitoring after torched-on work has been completed

REVIEW OF WATERPROOFING MATERIALS AND TOOLS (theoretical)

Raw materials and composition of membranes

Commonly used products

Complementary products

Description and use of basic tools

Assembly and maintenance techniques: torch, etc.

REVIEW OF BASIC INSTALLATION TECHNIQUES (theoretical)

Surface preparation

Acceptable substrates

Base sheet membrane and hot asphalt

Welding techniques

Overlaps

Cool and cold conditions

Common defects to avoid

“HIGH PERFORMANCE” SYSTEMS PRESENTATION (theoretical)

(Systems overview)

Mechanically fastened base sheet membranes

Mechanically fastened overlay board and base sheet membranes

Mechanically fastened Single-ply

Self adhesive base sheet membranes

Cold adhesive adhered base and cap sheet membranes

Hot SEBS bitumen adhered base and cap sheet membranes

Self adhesive cap sheet membranes

SELF ADHESIVE BASE SHEET FLASHING MEMBRANES (practical)

*****Practical evaluation*****

(SOPRAFLASH STICK AND SOPRALENE FLAM STICK)

Surface preparation

Acceptable substrates

Cool and cold conditions

Cutting inside and outside corners

Installation techniques

Overlaps

Common defects to avoid

MECHANICALLY FASTENED FIELD OVERLAY BOARDS AND BASE SHEET MEMBRANES (practical)

(SOPRAFIX, UNILAY, XPRESS BOARD, XPRESS ISO, XPRESS EPS, SOPRABASE FR)

Required tools
Surface preparation
Acceptable substrates
Cool and cold conditions
Unrolling and aligning membranes
Mechanical attachment fastening patterns
Overlaps
Common defects to avoid

SELF ADHESIVE FIELD BASE SHEET MEMBRANES (practical)

(COLVENT, COLPHENE 1500)

Required tools
Surface preparation
Acceptable substrates
Temperature limitations
Unrolling and aligning membranes
Overlaps
Common defects to avoid

COLD ADHESIVE ADHERED BASE AND CAP SHEET MEMBRANES (theoretical)

(COLPLY)

Required tools
Surface preparation
Acceptable substrates
Temperature limitations
Unrolling and aligning membranes
Overlaps
Common defects to avoid

HOT SEBS BITUMEN ADHERED BASE AND CAP SHEET MEMBRANES (theoretical)

(COLPLY)

Required tools
Surface preparation
Acceptable substrates
Cool and cold conditions and temperature limitations
Unrolling and aligning membranes
Overlaps
Common defects to avoid

SELF ADHESIVE CAP SHEET MEMBRANES (practical)

(COLPHENE HR GR)

Required tools
Surface preparation
Acceptable substrates
Temperature limitations
Unrolling and aligning membranes
Overlaps
Common defects to avoid

REVIEW OF CAP SHEET THERMOFUSIBLE MEMBRANE TECHNIQUES (practical)

*****Practical evaluation*****

Field cap sheet membrane

Upstand cap sheet membrane

Q&A AND REVIEW

THEORETICAL EXAM

END OF TRAINING SESSION