



## **SES Nexseal 2.0 Training Agenda**

### **Day #1 - SES Training:**

8:00 am:

- Polysource Website Overview
- Polyurethane Foam Overview
  - Theory & Terminology
  - Closed Cell & Open Cell Foam Info
  - Technical Data Sheets & Application Guide Overviews
- Application Chemistry
  - Chemistry Breakdown
  - Processing & Properties
  - Quality Control
  - Applicator Influences

10:00 am: 15 minute Break

10:15 am:

- Health & Safety
  - Hazards
  - Effects of Exposure
  - First Aid Instructions
  - Personal Protective Equipment
  - Chemical & Drum Disposal
  - Worksite Ventilation
  - Re-Occupancy Guidelines
  - Safety Data Sheet Overview
- Spray Foam Retrofit
  - SPF Retrofit Benefits
  - SPF Retrofit Options
  - Pre-Inspection Details
  - Attic Conversion

12:15 pm: 45 minute lunch

1:00 pm:

- Building Science Basics
  - Building Envelope
  - Control Layers
  - SPF Air Barrier Properties
  - Mechanisms of Heat Transfer
  - Vapor Retarder for Moisture Flow
  - Thermal Barrier Options

2:00 pm: 15 minute Break



2:15 pm:

- CAN/ULC – S705.2
  - Scope of Evaluation Listing
  - Requirements of S705.1/2
  - Substrate Preparation
  - Climatic Factors/Jobsite Setup
  - Troubleshooting/Handling & Safety/Disposal
  - Evaluation Listing Overview
- Equipment Introduction
  - Equipment Effects on Foam
  - Know When to Stop
  - Troubleshooting Introduction

4:00 pm: Day 1 Review

4:30 pm: End of Day 1

5:00 pm: Student Dinner (location TBA)

**Day #2 - SES Training:**

8:00 am:

- Equipment – Supply System
  - Material Supply System Components
  - Pump Operation
  - Transfer Pump Components
  - Starvation/Cavitation
  - Maintenance & Trouble Shooting
- HANDS ON: Transfer Pump Rebuild Demonstration
- Equipment – Proportioner Pumps & Common Drives
  - SPF System Components
  - Proportioner Start Up/Shut Down Protocol
  - Types of Proportioners
  - Output Capacity
  - Flow Rates
  - Final Output Factors
  - SPF Quality Factors
  - Component Breakdown

10:00 am: 15 minute Break

10:15 am:

- Equipment – Primary Heaters/Heated Hose Assembly



- Primary Fluid Heaters Capabilities
- Delta T Definition & Factors
- Heated Hose System Break Down
- Short Circuit Examples
- Hose Maintenance
- Equipment – Spray Guns
  - Gun Configuration
  - Mechanical vs Air Purge
  - Maintenance Overview
  - Schematic/Spare Parts Overview
- HANDS ON: Spray Gun Rebuild Demonstration

12:15 pm: 45 minute lunch

1:00 pm:

- Equipment – Troubleshooting
  - Graco Reactor Controls
  - Graco Reactor Error Codes
  - Graco Reactor Diagnostics
  - Troubleshooting Steps
  - Diagnosing Spray Issues

1:45 pm: 15 minute Break

2:00 pm:

- HANDS ON: Spray Foam Training

5:00 pm: End of day 2

### **Day #3 - UFC Written Test & Field Test:**

8:00 am:

- Course Review / Quick Quiz
- Q&A Period

9:00 am:

- UFC Written Test (100 Questions) – 3 hrs to complete test & need 67 correct to pass
- UFC Spray Test – Student is required to show they can setup, startup, operate, spray a consistent 2” of smooth foam in a standard wall cavity, fill out a daily work record, fill out a job site label and use a site test kit.
- UFC Instructor will take pictures of passed students for Certification Card

12:00 noon: Course Complete