



2023 SkillsUSA Roofing Competition

SkillsUSA is a CTSO (Career and Technical Student Organization) that is made up of a partnership of students, teachers and industry working together to ensure America has a skilled workforce. A nonprofit national education association, SkillsUSA serves middle-school, high-school and college/postsecondary students preparing for careers in trade, technical and skilled service occupations.

The SkillsUSA State Championships are career competition events showcasing the best career and technical education students in the state. Gold medal winners at the state level will compete at the national level in June. GARCA is very excited about having the first ever State Roofing Competition in 2023. It will be on Thermoplastic. In order to prepare students for this competition, we need contractors to partner with high schools in their area.

Partnering with Schools in Your Area

There are many benefits to partnering with high schools for both the contractor and the educator:

- Mentor high school students.
- Provide internships and job training.
- Help students learn basic skills.
- Establish a resource for future roofing needs.

Construction Ready (formerly CEFGA) has done an incredible job of identifying those high schools in the state of Georgia that are currently offering construction classes. Each contractor will be given the contact information for 3-4 of the schools in their area. To build a relationship with these schools, we suggest that you:

- Reach out to introduce yourself via email.
- Establish timeline for training sessions.

Preparing for a Session

The focus for the training sessions will be Thermoplastic. Included in this packet is a list of:

- Materials/equipment needed to design a building mockup.
- Specs for building a standard mockup.

The teachers can let the contractor know what they have on hand OR the contractor could bring everything that is needed and eliminate the potential variables of not having what is needed when they

get there. Most schools are going to have the basics but will likely not have specialty tools of the roofing trade - like those tools needed for Thermoplastic install.

Some schools will be able to frame mock-ups if they have enough notice and a design - but again, contractors will need to provide specialty materials.

Conducting a Training Session

In a 55-minute class period, contractors would need to block out 45 minutes time. 1-1/2 hour class period, contractors would need to block off 80 minutes of time. Contractors would need to do 5-6 of these training sessions with each school by end of February.

Based on the curriculum that was developed by NRCA for the National Roofing Competition Pilot, the following topics would need to be covered over the 5-6 sessions:

Vocabulary

Thermoplastic
Membrane
Flashing/flashing membrane/edge flashing/field wrap flashing
Ballister
Electromagnetic thermal induction welding
Release liner
Ground Fault Circuit Interpreter
Field wrap
Fall protection
PFAs
Tack weld
Compression sealants

Tools/Materials

Adhesives (solvent-based and water-based)
Hand-held hot air welder
Seam Probe
Generator
Extension cord
Hand roller
Wire brush
Clean cotton rags
Stripping ply
Clamping ring

Safety/Safety Equipment

Potential injuries (burns, lifting, falling) and how to prevent
Personal Protection Equipment (PPE)

Thermoplastic Overview

Definition/Use

Installation/best practices

Sample Timeframe

Week of November – Vocabulary, Materials

Week of December – Tools and safety equipment

Week of December – Thermoplastic installation

Week of January - Thermoplastic installation

Week of February - Thermoplastic installation