



RENFREW COUNTY SKILLS COMPETITION Scope of Welding

Purpose of the Challenge:

To test and evaluate student's welding and fitting skills, and to help prepare students for the demands of industry. **Maximum number of competitors is 15.** Space available will determine the total number of competitors from each school. Each school will be allotted one registration with extra spaces offered if available.

NOTE:

- **ALL COMPETITORS MUST BE PRE-REGISTERED. NO LATE ENTRIES.**
- Appropriate clothing and safety equipment must be worn.
- No communication with teacher advisors or visiting students during the competition. All questions to be directed to the judges.

General Skills and Knowledge to be tested:

- General safety on welding and safe working habits
- Ability to read welding blueprints and identify welding symbols on the blueprint (**imperial dimensions**)
- Transfer of measurements and other information from blueprint to the project
- Fit and tack weld components
- Welding with various processes: **MIG and ARC**
- Interpretation and application of welding symbols
- Cleaning of finished welds
- Lap joint, Butt joint, T-joint, Corner joint

*** The plans for the actual project will be supplied on the day of the competition. [A practice drawing is linked here with this scope for student preparation – this is similar to the competition project.](#)

***No communication with teacher advisors or visiting students during the competition. All questions to be directed to the judges.

Equipment and Materials:

<u>Supplied by Competitor:</u>	<u>Supplied by Committee:</u>
<ul style="list-style-type: none"> • Work clothing/coveralls appropriate for welding • PPE – welding helmet (speed masks allowed) and safety boots, ear protection, gloves and safety glasses. • Scriber and pen/pencil, chipping hammers and wire brush <p>*** Safety glasses must be worn during the contest.</p>	<ul style="list-style-type: none"> ➤ Clamps and magnets ➤ 7018 and 6011 welding rods (3/32 not 1/8) ➤ Materials list ➤ All welders and power sources

Timetable:

8:00	Registration and Orientation
8:30 – 11:00	Projects begin
11:00 -11:30	Lunch Break
11:30 – 1:30	Finish Welding Project
1:30-2:00	Judging
2:30	Awards Ceremony

Judging Criteria: Total possible score is 100%. A rubric will be given on competition day.