



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

#### Timetable:

8:00	<b>Registration and Orientation</b>
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.