

KFE Guidance Note:

This document provides a KFE competition specification outline. It sets out the expected elements of each industry round's competition. It is designed to ensure each competition within **KFE4Skills 2020** is similarly framed and that essential information is uniformly provided.

A set of overall Competition Rules & Guidance must be read in conjunction with this specification document. As every industry round differs, where such differences require amendments to the overall Competition Rules & Guidance, relevant specifications will include such amended details (for example entry criteria, pre-qualification submissions and competitor or team numbers for some industry rounds).

Registration in advance must be completed by college staff via the KFE website's Skills Competitions Page: <https://www.kentfurthereducation.org/skills-competitions-1>, where the Competition Rules & Guidance and all other key information about KFE4Skills can be found.

Arrivals and sign-in on competition day is from 8:45am to 9:15am with industry rounds commencing from 9:30am. Familiarisation time and health and safety briefings may be necessary and will be included in relevant rounds' schedule. All competitions and awards will be completed by 5pm.

Good luck and thank you if you're supporting delivery of, or entering this competition!
Further information: www.kentfurthereducation.org or email: kentfurthereducation@gmail.com

Competition Outline – Welding

This **KFE4Skills** competition is designed to prepare competitors for real life scenarios in the industry. It is also intended to hone and improve skills, your ability to make decisions and resolve challenges which could be faced in a typical day or in exceptional circumstances.

Participants will benefit from gaining not only an exciting competition experience that stretches and challenges them, but also a chance to enhance CVs and a greater opportunity to find work in the industry of your choice.

Criteria for entry

Entrants must be in education and/or employment with training, at one of the four KFE colleges, and/or have completed or be undertaking a relevant Level 2 or 3 or above programme within the last 12 months.

At the time of entry the entrants must have been challenged at the level of the competition. This means that entry is only possible through a qualifying process at your local college and with the endorsement and verification of the lead staff from that college.

Each college group (not campus) may enter 2 competitors.

For the Welding Skills Competition, you must be working towards a Level 2 or 3 Engineering qualification / Fabrication and Welding.

KFE Competition Specification #KFE4Skills 2020

KFE Competition Specification for Welding

Preparatory Brief

The welding industry needs you, the Welding and fabrication Industry is poised for significant growth, but also change that will present many benefits and challenges. You will complete 4 welding tasks.

Wearing the correct PPE all Parts to be welded are to be clean and prepared as per standard welding requirements.

- Task 1 complete a Butt Weld 150x5 mm Strap
- Task 2 Complete a multiple weld joint
- Task 3 Produce the welded joint as per the pre competition submission of the welding joint and process of your choice that highlights your welding skills.

Core Competences

- Demonstrate your knowledge of the requirements of H&S in relation to the fabrication and welding processes and environment. Adhere to procedures or systems in place for risk assessment.
- Prepare the work area for the welding process to be completed ensuring the safety of others.
- Check all equipment and set parameters for the selected welding process.
- Ensure all tasks, are tack welded in situ before commencing final welds.
- On completion of task, make safe the work area, and repeat 1-4 on the remaining task's.

Overall Competition Timings

KFE4Skills arrivals on the day will be from 8:45am to 9:15am when competitors will sign-in at the registration desks.

Competitions will commence from 9:30am including any familiarisation period required by all competitors and especially for those for whom the venue and accommodation is not their home college site. All competitions should be completed by 5pm including all judging announcements of winners and awards ceremonies.

- Arrivals 8:45am to 9:15am for sign-in
- Familiarisation 9:30am
- Competition Tasks 9:45am
- Lunch 12:30pm
- Competition Tasks 1:15pm
- Competition Judging 3pm-4pm approx.
- Awards 4pm-5pm approx

Note: A free packed-lunch option will be available to competitors. The venue's commercial food outlets and the events rest areas may be used additionally if required. The event lunch period will be between 12 noon and 2pm and competitors should be given time during that window for lunch and relaxation. For practical reasons how this is undertaken is at the discretion of the industry skills competition organisers.

The Skills Competition

Pre-competition Submissions

Produce a drawing of a welded joint and write a review of a welding process that would best highlight your welding skills. Ensure welding symbols and dimensions and material specifications are in place. Write a brief explanation as to why you have chosen this to highlight your skills.

Scoring will comprise of a Pass, Near Pass, or Fail in line with the core competences 1-4.

Live Competition Brief

Task 1

- Produce a Butt Weld using Mild steel 150x50x5mm, in the MMA welding process, Position PA, Weld to be tacked, and distortion controlled.
- Full penetration is required. BS 4872.

Task 2

- Complete multiple welds as per drawing, mild steel 5x 150x50x5mm, 1x 150x90x5mm. Welds to be tacked at appropriate intervals and joint accuracy checked before final welding.

Task 3

- This is a personal choice based task to be confirmed by each competitor as per the pre-competition submission section above.

Marking & Assessment

Pass =3 Near Pass = 1.5 Fail = 0

Compliance of H&S in the practical assessment /tasks	P, NP, Fail
Preparation of work area	P NP, Fail
Correct use and set up of equipment and tooling	P NP, Fail
Completion of weld criteria	P, NP, Fail
Correct shut down procedure and work area tidy	P, NP, Fail

Task 3 – Personal choice

Innovation	1-5
Completion of task	1-5
Verbal presentation / description of task	1-5
Quality overall	1-5
Time management	1-5
Welding symbols (Multiple weld joint drawing)	1 mark for each

Resources & Attire

Normal conditions apply to working safety in a fabrication and welding environment, as per legislation. Pen for marking weld symbols. Correct PPE is therefore essential and competitors should bring with them the items they normally utilise in their college training setting.

All tools, machinery and materials are to be supplied.

Judges Marking Sheets

The KFE competition will use marking guides best suited to the industry event. An example scoring sheet is below.

Judges will be selected from the expert KFE staff drawn from various colleges. Panels will normally number three to five judges and in some cases may include an external judge from the industry sector or an awarding body. Judges' decisions are final in all instances, although scoring will be open and transparent.

Local College Contacts

The following names staff are the identified leads at each college for this industry competition. They may be contacted in the first instance for information pertaining to each colleges' entry, selection process and preparations for their students:

- EKC Group – Paul Lewis
- MKC – Ruth Kay
- NKC – Dave Smith
- WKAC – Jim Mawby (WKAC are not expected to participate in this industry competition)

Competition Awards

Each industry competition will select three overall winners with judging scores defining the overall first, second and third places as gold, silver and bronze. Medals will be provided to the three winners and a participation certificate of commendation will be provided to all that take part.

Event Contact

For general information about the competition please contact KFE via the 'contact' form on the KFE site at www.kentfurthereducation.org or speak to your college's local competition lead.

Event information and specification updates are available at www.kentfurthereducation.org. It is recommended that the Skills Competitions page is checked regularly as specifications may be modified up to a week before the event.

KFE Competition Specification #KFE4Skills 2020

JUDGE MARKING SHEET - WELDING

Competitor	College	Score Task 1	Score Task 2	Score Task 3	Total Score

Comments:

Use this space for any specific comments noting the competitors as appropriate.