

KFE Guidance Note – KFE4Skills21 Hybrid Online Event:

This document provides the KFE competition specification outline for the 2021 hybrid format competition round detailed below. It sets out the expected elements of each industry round's competition. It is designed to ensure each competition within **KFE4Skills 2021** is similarly framed and that essential information is uniformly provided.

As every industry round differs, where such differences require amendments to the overall Competition Rules & Guidance, relevant specifications will include such details (for example entry criteria, pre-qualification submissions and competitor or team numbers for some industry rounds).

Registration for the competition rounds must be completed by the closing date by college staff via the KFE website's Skills Competitions Page:

<https://www.kentfurthereducation.org/skills-competitions-1>

Competition Rules & Guidance and all other information about KFE4Skills can also be found here. The overall Competition Rules & Guidance must be read in conjunction with this specification document.

2021 is a hybrid event whereby competition skills are demonstrated at local colleges and linked to others through digital tools and an event platform Arrivals and sign-in for each round may vary slightly. Competition day is from 9am-5pm with most industry rounds commencing from 9:30am following local sign-in and event launch on the main event platform.

Familiarisation time and health and safety briefings may be necessary and will be included in relevant rounds' schedule. All competitions should be completed by 4pm and all awards and the event overall by 5pm.

Good luck if you are competing and thank you if you are supporting delivery of, or entering this competition! Further information about KFE4Skills: www.kentfurthereducation.org or email: kentfurthereducation@gmail.com

Competition Outline – Electrical Installation Level 2

This **KFE4Skills** competition is designed to prepare competitors for real life scenarios in the industry. It is also intended to hone and improve skills and the 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 their choice.

This skills competition has been designed to challenge level 2 students. This has been designed to test that the candidate can complete an Electrical Installation that meets industry standards. Testing hand skills, underpinning knowledge and time management. This will include initial verification. This competition will allow the contestants to show case their individual abilities. The rest of this outline provides the general guidance including entry criteria and competitor numbers for this industry skill.

Criteria for entry

Entrants must be in education and/or employment with training, at one of the KFE college organisations (EKC Group, MidKent College and North Kent College (including West Kent College and Hadlow College), and/or have completed or be undertaking a relevant Level 2 or 3 or above programme within the last 12 months. Note NKC/WKC are not competing in 2021.

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 selection process at the entrants local college and with the endorsement and verification of the lead staff from that college.

Each college organisation (not campus) may enter 3 competitors. This means this industry competition may have up to 6 KFE4Skills finalists participating on the day (3 per KFE college organisation (MKC and EKCG).

KFE Competition Specification - Electrical Installation Level 2

Preparatory Brief

All competitors should be prepared to carry out installation of containment, 1st and 2nd fix. They are to demonstrate their knowledge of the Inspect and Testing. Note Diagram at Appendix 1.

Pre-competition Submissions

There are no pre-competition submissions required. Materials lists and tools lists (compiled by the competitors).

Despite the impact of Covid-19 Safe procedures and guidelines it is hoped that for this industry round KFE4Skills will be able to deliver a virtually connected online competition. Should the situation nearing the time of the event require it this round may be adapted to include pre-event prep tasks that can still be shared for judging purposes. Skill tests are all to be conducted at home colleges.

Core Competences

- Accurate measuring and marking out of work area from plans.
- Construction of containment, trunking and conduit.
- Installation of wiring systems.
- Second fixing of electrical components.
- Initial verification (inspection and testing).

Overall Competition Timings

KFE4Skills 2021 will be undertaken in a hybrid format. This requires competitors from each college organisation to participate from their respective college campus sites. An overall online event platform will be used to support the day and for engagement with each industry competition at key points during the day. Individual industry competitions will link participating colleges using other online conferencing tools.

Competitors should arrive on the day at their colleges as detailed below from **9am to 9:15am when competitors will sign-in at their college's industry round desks or work stations.**

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Competitions will commence from 9:30am including any familiarisation period required by all competitors. All competitions should be completed by 5pm including all judging announcements of winners and awards ceremonies.

Note: A free lunch voucher option will be available to competitors. The venue's commercial food outlets and the event's rest areas may be used additionally if required and if open in accordance with any Covid-19 safe requirements in place at the time.

The event lunch period will be between 12 noon and 2pm and competitors should be given time during that window for lunch and relaxation up to maximum of 1 hour. For practical reasons how this is undertaken is at the discretion of the industry skills competition organisers.

The Skills Competition

Competitors will be given a plan of the required work, this will be used by the competitors to enable all accessories and containments to be fitted. They will then go on to wire and second fix the tasks. The final section will be initial verification up to the point of making the system live.

Note the task for this event is detailed at the preparatory brief section supported by the Appendix diagram.

The running order of the competition for this round will be as per competition schedule below. Competitors should be mindful of the time that will be required to complete the testing.

Order of Competition

These timings are provisional and will be reflected by the overall event schedule.*

- 9:00-9:15am - Arrival and event registration at local home college
- 9:15-9:30am - Competitors (and staff) log in to REMO Event hosting platform
- 9:30-9:40am – Event Welcome and Launch via REMO
- 9:40-9:45am – Local colleges link using online conferencing tools (Zoom or Teams TBC)
- 9:45-10:00am – **Work station prep time / health & safety briefing**
- 10:00-11:00am - **Competition Challenge**
- 11:00-11:15am - Refreshment and Comfort Break
- 11:15-12:15pm - **Competition Challenge**
- 12:15–1:00pm - Lunch
- 1:00-2:15pm - **Competition Challenge**
- 2:20-2:45pm – Judging Panel
- 2:45-2:50pm – Judging confirmation – Link to REMO
- 3.00pm – REMO winner announcements
- 3.30pm – Industry Round Closes

Resources & Attire

Home college venues will be used for 2021 and must have all the usual industry equipment suitable for completion of the challenge tasks. Competitors will ideally be already familiar with the health and safety requirements of the venue.

Where applicable Covid-19 Safe requirements are in place these must be followed.

All competitors will be required to wear their college uniform (if appropriate). Protective footwear should be worn at all times in workshop areas.

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Each competitor will require a 4 foot x 4 foot board and the materials listed on the attached sheet (Appendix 1).

This is to be provided by the host college venue alongside all hand tools that will be required (no personal hand tools to be used to ensure a level field).

Marking & Assessment

Assessment/observation and marking will be carried out throughout the competition. Each competition round will be assessed and marked independently of any other competition activity, using objective and judgement criteria or a combination of both during each task.

It will be necessary to link online to other competing colleges and their staff teams and judges to conduct each competition challenge stage, discussion of results and final judging.

Judging criteria	Mark
Health and safety	/10
Accuracy of accessory placement	/20
Standards of terminations	/20
Understanding of design	/20
Testing of circuits in order and manner	/20
Validity of test results	/10

Judges Marking Sheets

The KFE competition will use marking guides best suited to the industry event. The example scoring sheet is below. Judges will be selected from the expert KFE staff drawn from various colleges.

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 – Jonathan Thompson / Gordon Paine
- MKC – Mike Lawrie
- NKC – Dave Smith
- WKC – Paul Lloyd

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.

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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.

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JUDGE MARKING SHEET

Competitor	College	Health and safety	Accuracy of accessory placement	Standards of terminations	Understanding of design	Testing of circuits in order and manner	Validity of test results	Total Score

Comments:

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

Appendix 1

Amount	Size	Description	
1 length	20mm	Pvc light gauge conduit	
2	15mm	250mm copper pipe	
4	15mm	Pipe clips	
1	20mm	Light gauge bending spring	
1	20mm	Tee box pvc	
1	20mm	Stop end besa box	
3	25mm	Pvc Marshall Tufflex back box. Round K/O	
2		2 way MK switch modular	
1		Intermediate switch modular	
1		Key switch	
2		Single gang yoke MK	
20	20mm	Spacer bar saddles	
1		2 gang yoke MK	
1		1 gang face plate	
1		2 gang face plate	
2		Batten lamp holder	
10M	1.5mm	Brown	
10M	1.5mm	Green/yellow	
2M	1.5mm	Blue	
1	5 way	Consumer metal clad, complete with Main switch, 32A RCBO, 6A RCBO	
32	15mm 8s	Wood screws	
Tools			
Appropriate hand tools			
Battery drill		20mm Hole-saw, various bits to suit.	
Multi-function tester		Or appropriate single function testers	

Appendix 1 Continued

- 1** 20mm Light gauge plastic conduit, used with appropriate adapters and connectors.
- 2** 15mm copper pipe, which PVC conduit must pass over obstruction with appropriate clearance.
- 3** 50x50 metal trunking with pre-manufactured 90° bend used, all sections of the trunking is to be earthed.
- 7** 3 double socket BS1363 outlets to be coupled directly to trunking, sockets are to be equal distance from each other.
- 8, This is a baton holder light fitting. To be operated via two way and intermediate switching. **10**, **11** and **12**
- 9, This is a baton holder light fitting simulating an emergency fitting. To be operated by the key switch on position **10**, the operation of this key switch should have no effect on any other fitting.
- 13** This is a switch fused spur that should be connected as part of the ring final circuit.
- 14** This is a switch fused spur that should be spurred off the ring final circuit via an appropriate method.
- 15** This is a switch fused spur that should be spurred off the ring final circuit via a different appropriate method.

All circuits are to be dead tested.

Diagram

Appendix 1



