**Competition Brief**

**Competition Title**

Electrical Installation

**Competition Overview**

An Electrician installs, repairs and maintains modern electrical systems and equipment; keeping them running efficiently and effectively. These systems can be located in all environments; domestic, commercial or industrial.

In this competition, competitors will have to carry out an electrical installation task designed to challenge their ability to follow drawings, work accurately and to work safely at all times, working to a set timescale.

**Entry Criteria**

The competition is for those training for a career in the construction industry and studying towards an Electrical Installation qualification or apprenticeship.

Please ensure that your entrants have the skills and competences to complete the task.

**Entry capacity restrictions by organisation**

Maximum of up to 2 per location.

This is the maximum number of entries permitted by an organisation for this competition.

This is determined by ‘location’ and ‘organisation’. ‘Organisation’ refers to the competitors’ training provider/employer. ‘Location’ refers to a site where the competitor studies / is employed. For further guidance on these capacities, click [here](https://www.skillscompetitionwales.ac.uk/terms/entry-capacity-restrictions-by-organisation)

**Task Duration**

5 Hours

**Brief**

Competitors will be given a drawing and a specification requiring them to carry out an electrical installation task and to carry out testing on the completed work.

Competitors will be assessed on the following criteria:

• Working Safely

• Positioning of equipment

• Wiring and termination

• Installation Quality

• Inspection and testing

• Function

**Infrastructure List**

Competitors will be expected to bring their own tools. Benches will be available at the venue.

**Competition Rules**

For full terms and conditions of entry and competition rules visit:

[www.inspiringskills.gov.wales/terms-and-conditions](http://www.skillscompetitionwales.ac.uk/terms-and-conditions)

**Generic competition rules**

• Mobile phones are to be switched off during competition activity.

• Listening to music via headphones is not permitted during competition activity.

• Any questions during competition activity should be addressed to the competition judging panel.

• Competitors should not communicate with other competitors during competition activity.

• It is the responsibility of each competitor to arrive on time for each competition session. No additional time will be allowed if you arrive late.

• Technical failure of your equipment should be reported immediately to the judging panel. Additional time will be allocated if the fault is beyond the control of the competitor.

**Marking and Assessment**

Marking and judging of this competition will be carried out by a team of experts from Industry, Further Education or Training Provider, using a marking criteria and allocated marks to ensure consistency.

**Brief breakdown of marking and assessment**

All marks are objective and will be awarded by the judges as follows:

|  |  |
| --- | --- |
| **Criteria** | **Marks** |
| Health & Safety | 7.5% |
| Installation Quality | 21.25% |
| Positioning of Equipment | 12.5% |
| Wiring & Terminations | 27.5% |
| Inspect & Test | 12.5% |
| Function | 18.75% |
| **Total** | **100%** |

**Feedback and Recognition**

Individual and Group verbal feedback will be provided at the end of the competition.

No results or awards will be awarded on the day as marking will be quality assured.

All competitors will be issued with a Participation Certificate and invited to an online Celebration Event which will be held Thursday 17th March 2022, where the First, Second and Third Awards will be announced. Further details will be communicated to competitors and their points of contacts by email.

Marksheets will be made available to competitors after the quality assurance process has been completed.

**Competition Lead**

**Lead Contact:**

Eddie Jones

Email address - [edward.jones@nptcgroup.ac.uk](mailto:edward.jones@nptc.ac.uk)

**Briff y Gystadleuaeth**

**Enw’r Gystadleuaeth**

Gosod Systemau Trydanol

**Trosolwg o’r Gystadleuaeth**

Mae Trydanwr yn gosod, trwsio a chynnal a chadw systemau ac offer trydanol modern; ac yn sicrhau eu bod yn gweithio’n effeithiol ac effeithlon. Gellir dod o hyd i’r systemau hyn ym mhob amgylchedd; mewn cartrefi, yn fasnachol neu’n ddiwydiannol.

Yn y gystadleuaeth hon, bydd rhaid i gystadleuwyr gyflawni tasg gosod systemau trydanol a fydd yn herio eu gallu i ddilyn lluniau, gweithio’n gywir a gweithio’n ddiogel bob amser, o fewn amserlen benodedig.

**Meini Prawf**

Mae’r gystadleuaeth ar gyfer y rheini sy’n hyfforddi ar gyfer gyrfa yn y diwydiant adeiladu ac yn astudio ar gyfer cymhwyster neu brentisiaeth mewn Gosod Systemau Trydanol.

Sicrhewch fod gan eich ymgeiswyr y sgiliau a’r gallu i gyflawni’r dasg.

**Cyfyngiadau ymgeisio gan sefydliad**

Cyfanswm o hyd at 3 i bob lleoliad.

Dyma’r uchafswm o gystadleuwyr a ganiateir gan sefydliad ar gyfer y gystadleuaeth hon.

Caiff hyn ei benderfynu ar sail ‘lleoliad’ a ‘sefydliad’. Mae ‘sefydliad’ yn cyfeirio at ddarparwr hyfforddiant/cyflogwr y cystadleuwyr. Mae ‘lleoliad’ yn cyfeirio at y safle lle mae’r cystadleuydd yn astudio/cael ei gyflogi. Am ragor o arweiniad ar y canllawiau hyn, cliciwch yma

**Hyd y Dasg**

5 Awr

**Briff**

Caiff y cystadleuwyr luniad (*drawing*) a manyleb yn gofyn iddyn nhw gyflawni tasg gosod system drydanol a chynnal prawf ar y gwaith sydd wedi ei gwblhau.

Caiff y cystadleuwyr eu hasesu yn ôl y meini prawf canlynol:

• Gweithio’n ddiogel

• Lleoli’r offer

• Weirio a therfyniad

• Ansawdd y Gosod

• Archwilio a phrofi

• Gweithredu (*function*)

**Rhestr Seilwaith**

Bydd disgwyl i gystadleuwyr ddod a’u hoffer eu hunain. Bydd meinciau ar gael yn y lleoliad.

**Rheolau’r Gystadleuaeth**

I weld y telerau ac amodau cystadlu a rheolau’r gystadleuaeth ewch i:

[www.inspiringskills.gov.wales/terms-and-conditions](http://www.skillscompetitionwales.ac.uk/terms-and-conditions)

**Rheolau cyffredinol**

• Rhaid diffodd ffonau symudol yn ystod y gystadleuaeth ei hun.

• Ni chaniateir gwrando ar gerddoriaeth drwy glustffonau yn ystod y gystadleuaeth ei hun.

• Dylid cyfeirio unrhyw gwestiynau yn ystod gweithgaredd y gystadleuaeth i banel beirniadu’r gystadleuaeth.

• Ni ddylai cystadleuwyr gyfathrebu gyda chystadleuwyr eraill yn ystod y gystadleuaeth ei hun.

• Cyfrifoldeb pob cystadleuydd yw cyrraedd ar amser ar gyfer pob sesiwn gystadlu. Ni chaniateir rhagor o amser os byddwch yn cyrraedd yn hwyr.

• Dylid adrodd am unrhyw fethiant technegol yn eich offer ar unwaith i’r panel beirniadu. Caiff y cystadleuydd amser ychwanegol os yw’r nam y tu hwnt i reolaeth.

**Marcio ac Asesu**

Bydd tîm o arbenigwyr yn y byd Diwydiant, Addysg Bellach neu Ddarparwr Hyfforddiant yn marcio a beirniadu’r gystadleuaeth hon a byddant yn defnyddio meini prawf marcio a marciau sydd wedi eu pennu er mwyn sicrhau cysondeb.

Mae pob marc yn wrthrychol a byddant yn cael eu dyfarnu gan y beirniaid fel a ganlyn:

|  |  |
| --- | --- |
| **Meini prawf** | **Marciau** |
| Iechyd a Diogelwch | 7.5% |
| Ansawdd y Gosod | 21.25% |
| Lleoli’r Offer | 12.5% |
| Weirio a Therfynu | 27.5% |
| Archwilio a Phrofi | 12.5% |
| Gweithredu | 18.75% |
| **Cyfanswm** | **100%** |

**Adborth a Chydnabyddiaeth**

Bydd adborth ar lafar yn cael ei roi i Unigolion a Grwpiau ar ddiwedd y gystadleuaeth.

Ni chaiff unrhyw ganlyniadau na dyfarniadau eu cyflwyno ar y diwrnod gan y byddwn yn marcio drwy sicrhau ansawdd.

Bydd pob cystadleuydd yn cael Tystysgrif Cyfranogi ac yn cael ei wahodd i Ddigwyddiad Dathlu ar-lein a gynhelir Dydd Iau 17eg Mawrth 2022, lle bydd y Wobrau Cyntaf, Ail a Thrydedd yn cael eu cyhoeddi. Bydd manylion pellach yn cael eu cyfleu i gystadleuwyr a'u pwyntiau cyswllt trwy e-bost.

Bydd taflenni marciau ar gael i gystadleuwyr ar ôl i'r broses sicrhau ansawdd gael ei chwblhau.

**Arweinydd y Gystadleuaeth**

Eddie Jones

Email address - [edward.jones@nptc.ac.uk](mailto:edward.jones@nptc.ac.uk)