

Core Competencies

The table below clearly lists the core competencies and the expected standards at each stage of the competition journey for the SkilleLECTRIC competition, starting from the Passive stage through to world class international standards.

| | | Passive | National Qualifier | National Final | WorldSkills / Team UK |
|-------------------|--|---------|--------------------|----------------|-----------------------|
| Competency | Health and Safety | | | | |
| Level 3 | Tidy work area | No | Yes | Yes | Yes |
| Level 3 | Correct PPE being used | No | Yes | Yes | Yes |
| Level 3 | Safe working practices being observed | No | Yes | Yes | Yes |
| Level 3 | Safe isolation of electrical supply | Yes | Yes | Yes | Yes |
| Level 3 | Theory knowledge | Yes | Yes | Yes | Yes |
| Competency | Positioning | | | | |
| Level 3 | Mark horizontal and vertical datum lines | No | Yes | Yes | Yes |
| Level 3 | Correctly position electrical components in relation to the given drawings | No | Yes | Yes | Yes |
| Level 3 | Ensure all equipment is fitted level | No | Yes | Yes | Yes |
| Competency | Wiring and Terminations | | | | |
| Level 3 | Correctly select the correct type and size of cable | No | Yes | Yes | Yes |
| Level 3 | Correctly fit and secure cable glands | No | Yes | Yes | Yes |
| Level 3 | Correctly and securely terminate conductors | No | Yes | Yes | Yes |
| Competency | Quality | | | | |
| Level 3 | Install cable containment to industry standards | No | Yes | Yes | Yes |
| Level 3 | Correctly support cables with clips or cleats where required | No | Yes | Yes | Yes |
| Level 3 | Correctly install cables within containment | No | Yes | Yes | Yes |
| Competency | Inspection and Testing | | | | |
| Level 3 | Correctly carry out the following tests: | | | | |
| | 1. Continuity | Yes | Yes | Yes | Yes |
| | 2. Insulation resistance | Yes | Yes | Yes | Yes |
| | 3. Earth fault loop impedance | No | No | Yes | Yes |
| | 4. RCD operation | No | No | Yes | Yes |
| Competency | Function | | | | |
| Level 3 | Installation operates as specified | No | Yes | Yes | Yes |