

Core Competencies

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

		Entry Stage	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

In addition to core electrotechnical skills, an electrician's role in low carbon installation will be embedded throughout the competition.