



Co-funded by the
European Union



Implemented by
giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

**BRITISH
COUNCIL**



worldskills Pakistan

National Skills Competition 2026

Competitor Preparation Guidelines

Trade Name: Electrical Installation

Competition Dates: May 12-13, 2026

Competition Venue: NAVTTC CoE, Islamabad

1. Scope of Preparation

Competitors should focus on the following key competency areas:

1.1. Domestic Electrical Installation

- Lighting and socket circuits
- Multi-way switching systems
- Protective devices and basic control circuits
- Cable routing, termination, and protection

1.2. Commercial / Industrial Installation

- Motor control circuits
- Contactors, overloads, and interlocking systems
- Basic panel wiring and control arrangements

1.3. Control Systems

- Relays, timers, and sequencing operations
- Basic logic control and integration of circuits

1.4. Testing & Commissioning

- Continuity and polarity testing
- Insulation resistance testing
- Functional verification of installations

1.5. Fault Finding

- Systematic identification of faults
- Circuit testing and diagnosis
- Correction and re-verification

1.6. Layout & Workmanship

- Panel and installation layout planning
- Neat wiring, alignment, and finishing
- Proper use of conduits, trunking, and accessories

1.7. Safety Practices

- Proper use of PPE
- Safe handling of tools and equipment
- Compliance with relevant safety standards (PEC / IEC)
- Clean and safe working environment

2. Nature of Competition Tasks

The competition tasks will typically include:

- Electrical installation and wiring systems
- Integration of control and power circuits
- Drawing interpretation and implementation
- Testing, commissioning, and fault correction
- Time-bound practical execution

3. Assessment Criteria

Competitors will be evaluated on:

- Safety compliance
- Circuit functionality
- Workmanship and neatness
- Accuracy of wiring and termination
- Testing and fault correction ability
- Time management and task completion

4. Important Notes

- Competition duration will be 6–7 hours
- Tasks are time-bound and performance-intensive
- Accuracy, safety, and quality are equally important
- Task variations may be introduced during competition
- Assessment will follow international competition standards