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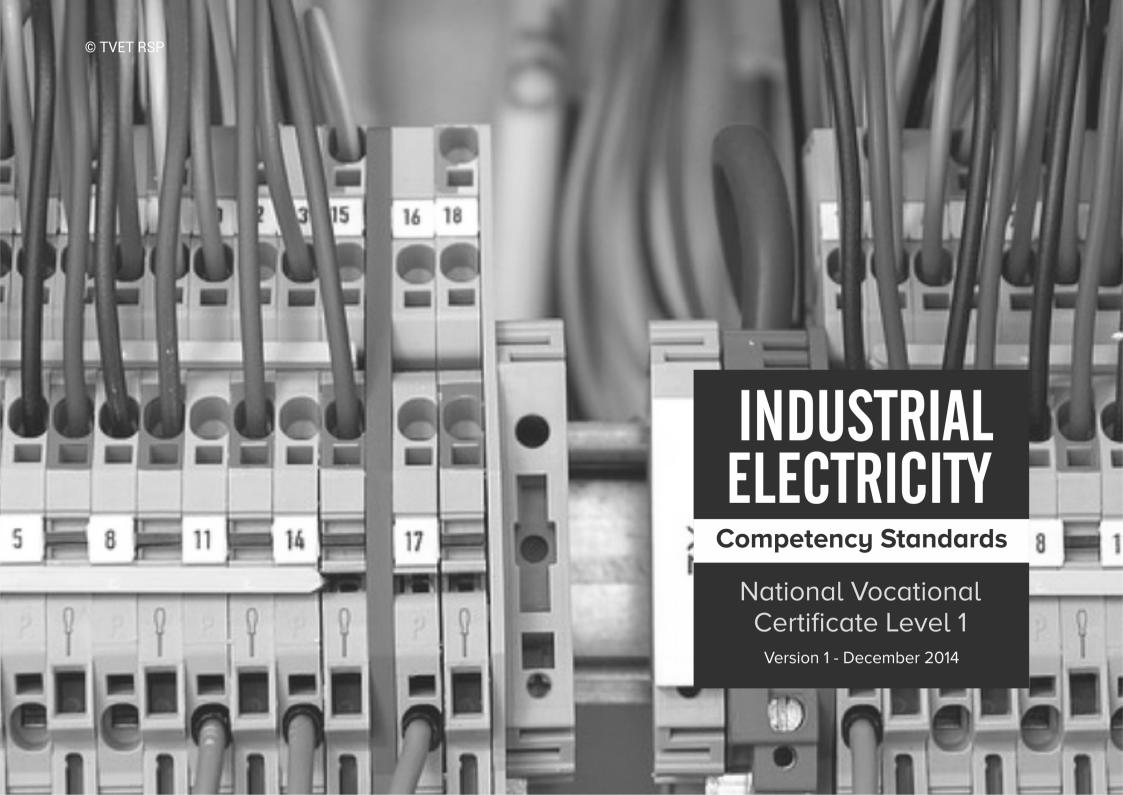


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Competency Standards: Industrial Electrician (Helper) - Level 1

Competency Standard A: Maintain safety, health and cleanliness

Overview: This competency standard is intended to maintain health, safety and cleanliness in a variety of contexts. People holding credit for this competency standard are able to: Identify risks in the workplace; follow cleanliness procedures to control risks; apply safe work procedures; and follow emergency procedures.

Competency Unit	Performance Criteria	Knowledge and Understanding
A1: Identify risks in the workplace	P1- Identify and report health and safety hazards, and hygiene risks P2- Take action to reduce risk	K1- Types of hazards and risks in different workplace context K2- Risk control and assessment
A2: Follow cleanliness procedures to control risks	P1- Apply workplace cleanliness procedures P2- Handle and stacking items and materials	K1- Personal and workplace hygiene K2- General handling and stacking procedures
A3: Apply safe work procedures	P1- Identify, functioning use and store personal protective equipment P2- Interpret safety signs and symbols	K1- Common personal protective equipment K2- Common safety signs and symbols
A4: Follow emergency procedures	P1- Identify and report to appropriate personnel P2- Carry out evacuation procedures P3- Perform basic fire fighting P4- Apply basic first Aid	K1- Emergency and evacuation proceduresK2- Types of fireK3- Type and use of extinguisherK4- First Aid procedure

Competency Standard B: Communicate in different work contexts

Overview: This competency standard is intended to apply basic communication skills in a variety of work contexts. People holding credit for this competency standard are able to: Gather, convey, and receive information; apply routine face-to-face communication; apply visual communication; and complete relevant work related documents.

Competency Unit	Performance Criteria	Knowledge and Understanding
B1:	P1- Gather, receive and respond verbal and written actions	K1- Types of verbal and non-verbal messages
Gather, convey and	P2- Convey instructions	K2- Purpose and function of communication devices
receive information	P3- Clarify understanding by asking questions	K3- Question techniques
B2:	P1- Receive and follow routine instructions	K1- Purpose of instructions
Apply routine face-to-face	P2- Carry out procedures according to requirements	K2- Purpose of set requirements
communication	P3- Access and interpret information from a range of sources	K3- Different types of sources
	P4- Complete verbal and/or written reporting	K4- Purpose of reporting; Types of reports
B3:	P1- Obtain and acknowledge attention of communicating parties	K1- Methods of official correspondence
Apply visual communication	P2- Clarify and confirm the intention of visual communication	K2- Visual communication skills
B4:	P1- Complete range of forms	K1- Examples of work forms and their purpose
Complete relevant work related documents	P2- Complete job cards	K2- Purpose of job cards

Competency Standard C: Apply a problem solving method

Overview: This competency standard is intended to apply a problem solving method in a variety of contexts. People holding credit for this competency standard are able to: Define a problem; choose a method for solving an identified problem; and apply the problem solving method.

Competency Unit	Performance Criteria	Knowledge and Understanding
C1: Define a problem	P1- Define problem in terms its nature, parties involved, and the effects it may have P2- Describe the problem in terms of ownership, responsibility, its sphere of influence and authority	 K1- Problem solving methods: Brainstorming Pros and cons IDEAL Research (may be omitted)
C2: Choose a method for solving an identified problem	P1- Describe problem solving method in terms of processes to be undertaken P2- Select and describe problem solving method in terms of its suitability	 K1- Problem solving methods: Brainstorming Pros and cons IDEAL Research (may be omitted)
C3: Apply the problem solving method	P1- Apply chosen method P2- Describe the outcome of the problem P3- Implement a conclusion to the problem	 K1- Problem solving methods: Brainstorming Pros and cons IDEAL Research (may be omitted)

Competency Standard D: Produce a plan for career options related to an Industrial Electrician

Overview: This competency standard is intended to assist people in planning for their career by developing an own plan for future directions. People holding credit for this competency standard are able to: Gather information for a personal profile; and produce a plan for achieving future directions.

Competency Unit	Performance Criteria	Knowledge and Understanding
D1: Gather information for a personal profile	 P1- Gather information relevant to own future directions decision-making P2- Identify options compatible with personal profile P3- Investigate sources of current career information in terms of planning for future directions P4- Select information sufficient and relevant to the identified options in terms of producing a plan for future directions P5- Prioritise and justify options on the basis of gathered information 	 K1- Analysis of own knowledge, skills, and abilities K2- Description of personal profile and compatible options K3- Methods of research work K4- Recognition of best available options K5- Methods of prioritising the options
D2: Produce a plan for achieving future direction	P1- Produce a plan using identified information sources	K1- Career guidance plan

Competency Standard E: Apply basic reading, writing and speaking skills in English in different life contexts

Overview: This competency standard is intended to assist people in applying basic reading, writing and simple speaking skills in(life skills) English in different life contexts. People holding credit for this competency standard are able to: read texts used in different contexts; write texts for different contexts; and apply speaking and listening skills.

Competency Unit	Performance Criteria	Knowledge and Understanding
E1:	P1- Identify and interpret the purpose of text	K1- Importance of written texts
Read texts used in different contexts	P2- Identify and interpret main ideas and/or key procedures in the text P3- Identify and interpret the meaning of key words and phrases in the text P4. Express enipiens on the text or on its subject matter in a clear.	K2- Importance of correct interpretation of textsK3- Key words and key phrasesK4- Explanation of text in a variety of contexts
	P4- Express opinions on the text or on its subject matter in a clear and simple manner	
E2:	P1- Use clear and simple English on familiar subjects	K1- Methods of simple English writing
Write texts for different contexts	 P2- Apply planning, drafting and editing processes P3- Apply correct and coherent sequence and structure of information and/or ideas P4- Achieve reasonable comprehension of written text through correct spelling, punctuation, and use of grammar 	 K2- Planning, drafting, and editing processes (may be omitted) K3- Summarising and paraphrasing of informed action K4- Principles of English grammar (may be omitted)
E3:	P1- Identify and interpret key points	K1- Speaking and listening skills
Apply speaking and listening skills	P2- Convey information in a clear and concise manner P3- Use speaking and listening skills effectively	K2- Speaking and listening skills K3- Speaking and listening skills

Competency Standard F: Apply basic numeracy skills in different life contexts

Overview: This competency standard is intended to assist people in applying basic numeracy skills in different life contexts. People holding credit for this competency standard are able to: Apply knowledge and conventions of common shapes to represent real life objects; Measure materials or objects; perform basic calculations associated with money, and time; use and create tables and graphs to represent and interpret public information; and apply simple formulae to solve arithmetic problems in real life contexts.

Competency Unit	Performance Criteria	Knowledge and Understanding
F1:	P1- Identify and name common two and three-dimensional shapes	K1- Types and terminology of common shapes
Apply knowledge and conventions of common	P2- Represent two and three-dimensional shapes and objects in diagrammatic form	K2- Differentiation between two and three dimensional shapes / objects
shapes to represent real life objects	P3- Assemble simple three-dimensional objects	K3- Differentiation between two and three dimensional shapes / objects
F2:	P1- Identify and use measuring instruments	K1- Types and purpose of measuring instruments
Measure materials or objects	P2- Apply simple formulae to calculate area and volume of regular shapes	K2- Units of measurement and abbreviations
F3:	P1- Perform simple calculations involving time	K1- Rounding techniques
Perform basic calculations	P2- Convert fractions, decimals, and percentages	K2- Types of fractions
associated with money, and time	P3- Perform simple calculations involving money	K3- Rounding techniques
F4:	P1- Identify and interpret key features of everyday tables and graphs	K1- Different types of tables and graphs
Use and create simple	P2- Collect, sort and record data in a table	K2- Preparation of basic data, tables & graphs
tables and graphs to represent and interpret public information	P3- Construct and label simple graphs	K3- Meaning of graphs, such as increasing, decreasing, and constant value
F5:	P1- Use simple formulae and algebraic expressions	K1- Interpretation of simple formula & algebraic expression
Apply simple formulae to solve arithmetic problems in real life contexts	P2- Verify solutions to simple arithmetic problems	K2 - Arithmetic problems and solutions

Competency Standard G: Demonstrate positive workplace attitude and behaviours

Overview: This competency standard is intended to assist people in developing a positive attitude and behaviour in a work environment. People holding credit for this competency standard are able to: Apply knowledge of positive workplace attitude and behaviours; interact with people in the context of a work environment; and assess own professional behaviour in a work environment setting.

Competency Unit	Performance Criteria	Knowledge and Understanding
G1: Apply knowledge of positive workplace attitude and behaviours G2: Interact with people in the context of a work environment	P1- Describe proper dress code in a work environment P2- Demonstrate positive listening skills P3- Explain the concept of work ethic P1- Describe the importance of first impression P2- Demonstrate interaction with people in a work environment setting P3- Explain good customer service practice P4- Demonstrate ways of behaving professionally when provoked P5- Explain the importance of confidentiality	 K1- Acceptable and unacceptable dress code K2- Positive listening strategies K3- Responsibility and accountability of the individual K1- Grooming, Attire K2- Ways of greeting, introducing and interacting with people K3- Define customer service K4- Patience and tolerance K5- Confidentiality of: Information Material Documents
G3: Assess own professional behaviour in a work environment setting	P1- Analyse personal behaviour in three different situations in a work environment P2- Measure personal behaviour against personal or company standards	 K1- Influencing factors in personal behaviour, e.g. Anger Stress Depression K2- General code of conduct

Competency Standard H: Carry out maintenance procedures as Industrial Electrician (Helper)

Overview: This competency standard is intended to carry out maintenance procedures. People holding credit for this competency standard are able to: Demonstrate knowledge of preventive maintenance; carry out a preventive maintenance programme; and demonstrate safe working procedures.

Competency Unit	Performance Criteria	Knowledge and Understanding
H1: Demonstrate knowledge of preventive and corrective maintenance	P1- Define 'preventive maintenance' and corrective maintenance P2- Explain the importance of maintenance	K1- Preventive and corrective maintenance K2- Safety; Efficiency; Time- and cost saving
H2: Carry out a preventive / corrective maintenance programme	P1- Explain preventive maintenance programmes P2- Follow preventive / corrective maintenance programme	 K1- Scheduled maintenance K2- Maintenance of: Tools Equipment Machinery Facilities
H3: Demonstrate safe working procedures	P1- Wear personal protective equipment P2- Adhere to documented maintenance procedures	K1- Types of personal protective equipment K2- Types of documents

Documents, policies, guidelines:

- International Labour Organisation (ILO) Standards on Occupational Health and Safety
- Pakistan Electricity Act, 1910 and subsequent amendments
- Institute of Electrical and Electronics Engineers Standards Association (IEEE-SA)
- Industry code of practice

Tools and Equipment:

No.	Description	Quantity
1	Safety signage	Multiple
2	Personal protective equipment	15 sets
3	Hand tools (basic electrical toolbox)	15 sets
4	Measuring instruments (Rulers, watches/clocks, scales, thermometer, AVO meter, gravity meter)	5
5	Two- and three dimensional shapes / objects	Multiple
6	Text books	15
7	Reference books (Manufacturer's specification, Installation guides, Workplace documents)	5
8	Visual aids, demonstration models	Multiple

Consumables:

No.	Description	Quantity
1	Fire extinguisher	3
2	Fire blanket	3
3	Fire bucket	3
4	Computer	8
5	Printer	1
6	Scanner	1
7	Multimedia Projector	1
8	Flip chart with stand	3
9	Internet connection	1

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