

OCCUPATIONAL PROFILE FOR ELECTRICIAN - HOUSE WIRING

Workers Behaviour	General Knowledge and Skills	
<ul style="list-style-type: none"> Calm Cheerful Cleanliness conscious Creative Determined Disciplined Energetic Environment conscious Flexible Good mannered Hard working Honest Open minded Organized Patient Quality conscious Reliable Respect for company's regulations Responsible Safety conscious Self controlled Team player Technical oriented Time conscious 	<ol style="list-style-type: none"> Basic knowledge of computer Basic knowledge of estimation and costing Knowledge of spare parts Knowledge of catalogues / manuals Knowledge of company's policies and procedures Knowledge of environment regulations Knowledge of first aid Knowledge of human psychology Knowledge of hygiene Knowledge of materials Knowledge of measuring instruments Knowledge of occupational terminologies Knowledge of operation of fire extinguisher Knowledge of products Knowledge of quality control Knowledge of standard measurement Knowledge of technical drawings Knowledge of tools and equipment Knowledge of work and work safety 	<ol style="list-style-type: none"> Communication skills Convincing skills Decision making skills Leadership skills Learning skills Listening skills Manual referring skills Record keeping skills Selling skills Simple load calculation skills Teaching visualization skills Team work skills Typing skills Writing skills
TOOLS AND EQUIPMENT	CONCERNS AND FUTURE TRENDS	
<ul style="list-style-type: none"> Ball pin hammer Crimping tool Drill bit set Drilling machine Electrician knife Hacksaw Mallet Measuring instruments Measuring tape Pliers Safety gear (Helmet, gloves, masks, belts etc) Screw driver set Soldering iron Spanner set Vice (hand, bench etc) Wrench (slide and pipe) 	<ul style="list-style-type: none"> Allen keys Auger Centre punch Chisel Cutting machine Die and stoke Files Jig saw Safety ladder Micrometer Megger Multimeter Neon tester Plug and puller Plumb bob Poker Sharpening stone Spirit level Threading machine Try square Vernier calliper 	<ul style="list-style-type: none"> Further training needed Salary increment Lack of incentive Job security required Retirement benefits needed Adequate tools required Computer training needed Exposure to other professions Supportive management Introduction to new tools / equipment Improved working environment

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Occupational Profile for ELECTRICIAN - House Wiring Level 2

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 Royal Government of Bhutan

Produced for

**Training Providers, Employers, Employees,
 Trainees and Interested General Public.**

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15 - 17 June 2004

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ELECTRICIAN - House Wiring : Duties & Tasks

15 - 17 June, 2004

Duties	← Tasks →										
A Ensure safety practices	A1 Examine physical fitness	A2 Practice safety habits	A3 Check work environment for safety work	A4 Wear safety gear	A5 Secure climbing devices	A6 Exhibit safety signs / tags	A7 Maintain storage of tools				
B Prepare for work	B1 Obtain information of work from clients	B2 Obtain work order	B3 Supervise work done by subordinates	B4 Procure wiring materials	B5 Verify wiring materials	B6 Arrange materials and tools	B7 Coordinate work with co-workers	B8 Delegate work to subordinates			
C Carry out pre-installation work	C1 Analyse drawings	C2 Study feasibility of location	C3 Propose layout change	C4 Execute measurements	C5 Execute markings	C6 Drill holes	C7 Lay pipes / casing and cappings	C8 Fix wires	C9 Fix switch box		
D Install fittings and accessories	D1 Assemble fittings	D2 Pre-test wiring accessories	D3 Prepare slot cutting	D4 Undertake connection	D5 Fix light points	D6 Fix power points	D7 Charge fittings	D8 Set up appliances			
E Install safety devices	E1 Fix panel board	E2 Fix MCCB / main switch	E3 Fix bus bar	E4 Set up distribution board	E5 Provide ELCB / RCCB	E6 Fix MCB	E7 Set up earthing	E8 Erect lightning arrester	E9 Provide fire / smoke detector	E10 Provide burglar alarms	
F Conduct installation test	F1 Perform visual quality check	F2 Carry out open circuit test	F3 Perform insulation test	F4 Identify current leakage	F5 Carry out polarity test	F6 Perform continuity test	F7 Perform earth test				
G Diagnose system faults	G1 Check fuses / MCB	G2 Measure supply voltage	G3 Trace short circuit	G4 Inspect electrical appliances / fittings	G5 Inspect loose joints	G6 Check naked wire / leakage	G7 Carry out estimate for repair work				
H Carry out maintenance work	H1 Prepare maintenance plan	H2 Replace faulty fuse / MCB	H3 Rectify short circuits	H4 Provide insulation to naked wires	H5 Rewire damaged / burnt wires	H6 Solder loose joints	H7 Repair faulty appliances / fittings	H8 Replace faulty appliances / fittings	H9 Inform suppliers for re-connection	H10 Fasten loose joints	
I Maintain official documents	I1 Prepare materials requisition	I2 Keep stock inventory	I3 Keep maintenance record	I4 Prepare daily report	I5 Submit report to authority (test and progress etc)						
J Develop additional knowledge and skills	J1 Identify training needs	J2 Make training proposal	J3 Participate in training / seminars / study tours	J4 Share ideas with co-workers	J5 Read books / manuals / catalogues	J6 Familiarize with new tools / equipment					

MCB – Miniature Circuit Breaker

MCCB - Moulded Case Circuit Breaker

RCCB - Residual Current Circuit Breaker

ELCB - Earth Leakage Circuit Breaker