

Manpower Planning and Development (Electrical Industry)  
(Amendment) Notice, 2021 (No. 16)

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IT is hereby notified that the Minister of Higher and Tertiary Education, Innovation, Science and Technology Development has, in terms of section 32 of the Manpower Planning and Development Act [*Chapter 28:02*], made the following notice:—

1. This notice may be cited as the Manpower Planning and Development (Electrical Industry) (Amendment) Notice, 2021 (No. 16).

2. The First Schedule of the Manpower Planning and Development (Electrical Industry) Notice, 1980, published in Statutory Instrument 745 of 1980, is amended by the insertion of—

“Instrumentation and Control Technician”

3. The Second Schedule is amended by the insertion of the following—

**NATIONAL DIPLOMA IN ELECTRONIC ENGINEERING: INSTRUMENTATION AND  
CONTROL SYSTEM**



**MINISTRY OF HIGHER AND TERTIARY EDUCATION,  
INNOVATION, SCIENCE AND TECHNOLOGY  
DEVELOPMENT SKILLS PROFICIENCY SCHEDULE**

INDUSTRY:		TRADE/OCCUPATION:		CLASS/LEVEL:	
Electrical Engineering		Instrumentation & Control/Technician		National Diploma	
DUTY A: Install Equipment		Approval Date:		Review Date: 18 - 20 March 2014	
Pre-requisites: National Certificate		PROFESSIONAL PROFICIENCY INDICATORS		WORK-PLACE ESSENTIAL SKILLS	
TASK	STEPS	RELATED KNOWLEDGE			
A. 1	<ul style="list-style-type: none"> <li>➤ Visually inspect the equipment</li> <li>➤ Check availability of components</li> <li>➤ Check if specifications adheres to standard</li> <li>➤ Check availability of interface software and operation manual</li> <li>➤ Select test equipment</li> <li>➤ Measure the dimensions of the equipment</li> <li>➤ Prepare assessment report</li> </ul>	<ul style="list-style-type: none"> <li>• Equipment is checked for wear and tear</li> <li>• Corresponding components are labelled</li> <li>• Test meters are used</li> <li>• Conversion tables are used</li> <li>• test equipment is selected according to dimensions to be checked</li> <li>• Measurement is taken</li> <li>• Assessment certificate is filed.</li> </ul>	<ul style="list-style-type: none"> <li>• Interpretation of wiring diagram</li> <li>• Use of hand tools</li> <li>• Use of measuring tools</li> <li>• Knowledge of materials</li> <li>• Knowledge of colour codes</li> <li>• Use of marking tools</li> <li>• Use of electrical machinery</li> <li>• Ability to perform component testing</li> <li>• Component identification</li> <li>• Purpose and operating principle</li> <li>• Knowledge of loop diagnostic methods</li> <li>• Programme design and writing</li> <li>• Use of various intelligent devices</li> </ul>	<ul style="list-style-type: none"> <li>Measuring skills</li> <li>Calculations</li> <li>Results interpretation</li> <li>Reading instructions, specifications, manuals, data sheets and charts</li> <li>Interpretation of diagrams</li> <li>Computer literacy</li> <li>Scheduling of work</li> </ul>	

TASK	STEPS	PROFICIENCY INDICATORS
A.2 Prepare Work Area	<p>Identify work site</p> <p>Select tools, equipment and materials</p> <p>Clean the work area</p> <p>Mark-out the installation area</p> <p>Run cables and impulse lines</p> <p>Prepare Safety documents</p> <p>Prepare brackets and holders</p>	<ul style="list-style-type: none"> <li>• Work area is barricaded</li> <li>• Switch gear is turned off and locked</li> <li>• Equipment location is marked</li> <li>• Unwanted equipment is (re)moved?</li> <li>• Power cables, signal cables and impulse lines are in place</li> <li>• Brackets and holders are fabricated</li> <li>• Caution signs are in place</li> <li>• Safety documents are printed and displayed</li> <li>• Sources and signal cables are labelled</li> <li>• Installation area is painted with proper colour coding</li> <li>• Appropriate tools and equipment are selected</li> <li>• Worn out structures are reconstructed</li> <li>• Recommended cleaning solvents are used</li> <li>• Cable selection chart is employed</li> </ul>

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TASK	STEPS	PROFICIENCY INDICATORS
<b>A.3</b>	<ul style="list-style-type: none"> <li>➤ Identify equipment software</li> <li>➤ Select programming language to use</li> <li>➤ Identify computer hardware</li> <li>➤ Select interface module</li> <li>➤ Write down the programme</li> <li>➤ Convert programme to machine language</li> <li>➤ Debug programme for equipment</li> <li>➤ Upload programme to equipment</li> <li>➤ Run the programme</li> </ul>	<ul style="list-style-type: none"> <li>• Equipment version charts are used</li> <li>• Programming language is identified and noted</li> <li>• Interface selection is done</li> <li>• System with sufficient selecting power is selected</li> <li>• Programming software is installed</li> <li>• Function block diagram is designed</li> <li>• Equipment programme is filed</li> <li>• Programme is compiled to machine language</li> <li>• Debugging report is produced</li> <li>• Equipment indicators indicating programme is loaded</li> <li>• Equipment parameters have changed</li> <li>• Programme simulation is carried out</li> <li>• Read indicator on equipment is turned on</li> </ul>
<b>A.4</b> <b>Assemble Equipment</b>	<ul style="list-style-type: none"> <li>➤ Select appropriate tools</li> <li>➤ Position equipment to its corresponding markings</li> <li>➤ Fix equipment to brackets and holders</li> <li>➤ Join corresponding parts</li> <li>➤ Secure equipment with appropriate joining tools</li> <li>➤ Check if all connections are as written in the manual</li> <li>➤ Fix cables according to correct colours and sizes.</li> </ul>	<ul style="list-style-type: none"> <li>• Appropriate tools and equipment are selected</li> <li>• Equipment is fixed to brackets and holders</li> <li>• Equipment is properly positioned to its corresponding markings</li> <li>• All cables are connected</li> <li>• All drawings are secured</li> <li>• All cables are well-labelled</li> <li>• Correct colour and cable sizes are documented</li> <li>• Torque wrench is used to test the strength of mountings</li> </ul>

TASK	STEPS	PROFICIENCY INDICATORS		
<b>A.5 Commission Equipment</b>	<ul style="list-style-type: none"> <li>➤ Check if all cables are well-terminated</li> <li>➤ Test for short and open circuits</li> <li>➤ Cancel out safety document</li> <li>➤ Switch on power</li> <li>➤ Check availability of inputs and outputs</li> <li>➤ Verify functionality of interlocks</li> <li>➤ Conduct test-run</li> <li>➤ Rectify shortcomings</li> <li>➤ Prepare commissioning report</li> </ul>	<ul style="list-style-type: none"> <li>• Lugs of correct sizes are used</li> <li>• Test meter is used to test for short and open circuits</li> <li>• Isolation key is removed</li> <li>• Breaker is turned on</li> <li>• Mechanical and electrical soundness is ensured</li> <li>• Input and output signals are verified</li> <li>• Equipment is operated according to set standards</li> <li>• Identified shortcomings are rectified</li> <li>• Analysed data is tabulated</li> <li>• Produced signals are measured</li> <li>• Commissioning reports are filed.</li> </ul>	<ul style="list-style-type: none"> <li>Pop rivet guns</li> <li>Cable stripper</li> <li>Drilling machine</li> <li>Crimping tool</li> <li>Test meter</li> <li>Hacksaw</li> <li>Primer</li> <li>Intelligent device interfaces</li> </ul>	<ul style="list-style-type: none"> <li>Paint brush</li> <li>Soldering station</li> <li>Adjustable spanner set</li> <li>Pipe wrench</li> <li>Telephone</li> </ul>

**TOOLS AND EQUIPMENT NECESSARY TO COMPLETE THIS DUTY:**

- Insulated screw driver
- Side cutters set
- Cable knives
- Combination spanners
- Allen keys
- Pipe cutter
- Computer

**MATERIALS**

- Computer software
- Stationery
- Insulated Lugs
- Insulation tape
- Slotted trunking
- Rivets

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**HEALTH, SAFETY AND ENVIRONMENTAL ISSUES RELATED TO THIS DUTY:**

Housekeeping	Personal Protective Equipment
First Aid kit	Workshop safety and health regulations
Environmental regulations	Waste separation

**SPECIFIC WORKER TRAITS REQUIRED IN COMPLETING THIS DUTY:**

Team worker	
Sober-minded	
Punctual	
Focused	
Able to communicate	
Creative	
Target oriented	

 <p><b>ZIMBABWE</b></p> <p>MINISTRY OF HIGHER AND TERTIARY EDUCATION, INNOVATION, SCIENCE AND TECHNOLOGY DEVELOPMENT SKILLS PROFICIENCY SCHEDULE</p>		<b>CODE</b> <div style="border: 1px solid black; height: 40px; width: 100%;"></div>	
<b>INDUSTRY:</b> Electrical Engineering <b>DUTY B: Calibrate Equipment</b> <b>Pre-requisites:</b> National Certificate		<b>TRADE/OCCUPATION:</b> Instrumentation & Control Technician	
<b>Approval Date:</b> 18 - 20 March 2014		<b>CLASS/LEVEL:</b> National Diploma	
TASK	STEPS	PROFICIENCY INDICATORS	RELATED KNOWLEDGE
B. 1 <b>Identify equipment that needs calibration</b>	<ul style="list-style-type: none"> <li>➤ Look at register of instruments to be calibrated</li> <li>➤ Check equipment behaviour in the plant</li> <li>➤ Check process outputs</li> <li>➤ Measure process signals from an instrument</li> <li>➤ Respond to operator request for instrument calibration</li> </ul>	<ul style="list-style-type: none"> <li>• Calibration register is updated</li> <li>• Conversion tables are used</li> <li>• Condition monitoring Job Card is compiled</li> <li>• Process calibrators are used</li> <li>• Operator report book is used</li> </ul>	<p><b>WORK-PLACE ESSENTIAL SKILLS</b></p> <ul style="list-style-type: none"> <li>• Knowledge of standards used</li> <li>• Knowledge of unit conversions</li> <li>• Measurement using test meter</li> <li>• Knowledge of Electronic circuits</li> <li>• Use of hand tools</li> <li>• Knowledge of colour codes</li> <li>• Selecting correct calibrators</li> <li>• Troubleshooting</li> <li>• Document preparation</li> <li>• Use of cleaning solvents</li> <li>• Instrument principle of operation</li> </ul>

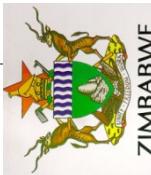
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<b>DUTY B: Calibrate Equipment</b>	<b>CLASS/LEVEL:</b> National Diploma				
<b>Pre-requisites:</b> National Certificate	<b>Approval Date:</b> 18 - 20 March 2014				
TASK	STEPS	PROFICIENCY INDICATORS	RELATED KNOWLEDGE	WORK-PLACE ESSENTIAL SKILLS	
<b>B.2</b> <b>Prepare work bench</b>	<ul style="list-style-type: none"> <li>➤ Remove equipment from the plant</li> <li>➤ Clean the workbench</li> <li>➤ Select appropriate tools</li> <li>➤ Prepare standards to be used</li> <li>➤ Set up the equipment</li> </ul>	<ul style="list-style-type: none"> <li>• Appropriate cleaning solvents are used</li> <li>• Unnecessary equipment is removed from the workbench</li> <li>• Equipment is on the table</li> <li>• All necessary tools and standards are on the table</li> <li>• Standards are fitted to the equipment</li> <li>• Equipment is ready for calibration</li> <li>• Conversion tables are on the workbench</li> </ul>			

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<b>INDUSTRY:</b> Electrical Engineering <b>DUTY B:</b> Calibrate Equipment <b>Pre-requisites:</b> National Certificate		<b>TRADE/OCCUPATION:</b> Instrumentation & Control Technician <b>CLASS/LEVEL:</b> National Diploma	
<b>Approval Date:</b> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>		<b>Review Date:</b> 18 - 20 March 2014 <b>WORK-PLACE ESSENTIAL SKILLS</b>	
TASK	STEPS	PROFICIENCY INDICATORS	RELATED KNOWLEDGE
B. 3	<ul style="list-style-type: none"> <li>➤ Turn on power to the equipment</li> <li>➤ Put a known standard to the input of the equipment</li> <li>➤ Monitor the behaviour of the equipment against standard</li> <li>➤ Maintain ambient standards</li> </ul>	<ul style="list-style-type: none"> <li>• The equipment is powered</li> <li>• Input signal is generated</li> <li>• Equipment behaviour is recorded</li> <li>• Indicating equipment is used</li> <li>• Deviations are noted</li> </ul>	

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<b>Pre-requisites:</b> National Certificate	<b>Approval Date:</b>	<b>PROFICIENCY INDICATORS</b>	<b>WORK-PLACE ESSENTIAL SKILLS</b>
<b>TASK</b>  B.4  <b>Perform adjustments</b>	<b>STEPS</b>  <ul style="list-style-type: none"> <li>➤ Check for zero error</li> <li>➤ Adjust the zero of the instrument</li> <li>➤ Check for the range of the instrument</li> <li>➤ Adjust the range of the instrument</li> </ul>	<ul style="list-style-type: none"> <li>• The zero error is noted</li> <li>• The zero screw is adjusted</li> <li>• The new zero value is recorded</li> <li>• The range error is noted</li> <li>• The range screw is adjusted</li> <li>• The new range is recorded</li> </ul>	<b>RELATED KNOWLEDGE</b>  Review Date: 18 - 20 March 2014

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<b>Approval Date:</b> 18 - 20 March 2014 <b>Review Date:</b> 18 - 20 March 2014		<b>WORK-PLACE ESSENTIAL SKILLS</b>	
TASK	STEPS	PROFESSIONAL INDICATORS	RELATED KNOWLEDGE
B.5 Generate calibration certificates and stickers	<ul style="list-style-type: none"> <li>➤ Compile calibration sheets</li> <li>➤ Update the calibration register</li> <li>➤ Issue out calibration certificates</li> <li>➤ Fill in calibration stickers</li> </ul>	<ul style="list-style-type: none"> <li>• Calibration sheet is compiled</li> <li>• Calibration register is updated</li> <li>• Calibration certificate is written</li> <li>• Calibration stickers are put on the equipment</li> </ul>	
<b>TOOLS AND EQUIPMENT NECESSARY TO COMPLETE THIS DUTY:</b>			
Computer Precision screw driver Spanner set Standard certified test equipment Signal simulator Loop calibrator			

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Hart communicator  
Manuals

Side cutters  
Cable knife  
Test meter  
Soldering station

## MATERIALS

Insulation tape  
Insulation lugs  
Software disks

## HEALTH, SAFETY AND ENVIRONMENTAL ISSUES RELATED TO THIS DUTY:

First Aid Kit  
Personal Protective Equipment  
Housekeeping  
Environmental regulations  
Proper waste disposal methods

## SPECIFIC WORKER TRAITS REQUIRED TO COMPLETE THIS DUTY:

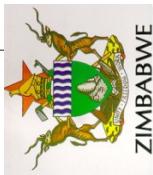
Team-worker  
Target-oriented  
Focussed  
Communicator

MINISTRY OF HIGHER AND TERTIARY EDUCATION, INNOVATION, SCIENCE AND TECHNOLOGY DEVELOPMENT SKILLS PROFICIENCY SCHEDULE		CODE	
INDUSTRY:	TRADE/OCCUPATION:	CLASS/LEVEL: National Diploma	
DUTY	Approval Date:	WORK-PLACE ESSENTIAL SKILLS	
Pre-requisites:	Pre-requisites:	Review Date:18 - 20 March 2014	
TASK	STEPS	PROFICIENCY INDICATORS	RELATED KNOWLEDGE
C.1 Establish instrument maintenance requirements	<p>A Monitor instrument performance</p> <p>A Identify manufacturer's maintenance recommendations</p> <p>A Evaluate instrument process environment</p> <p>A Assess the historical data of similar instruments from records</p>	<ul style="list-style-type: none"> <li>Manufacturer's maintenance manuals are used</li> <li>Manufacturers experts are consulted</li> <li>Periodic instrument condition checks are performed</li> <li>Historical instrument performance charts are analysed</li> <li>Environmental reports are generated</li> <li>Process operators are consulted</li> </ul>	<p>Interpretation of wiring diagram</p> <ul style="list-style-type: none"> <li>Use of hand tools</li> <li>Use of measuring tools</li> <li>Knowledge of materials</li> <li>Knowledge of colour codes</li> <li>Use of marking tools</li> <li>Ability to perform component testing</li> <li>Component identification</li> <li>Purpose and operating principle</li> <li>Knowledge of loop diagnostic methods</li> <li>Programme design and writing</li> <li>Use of various intelligent devices</li> <li>Knowledge of process and instruments</li> <li>Ability to create back ups</li> <li>Programme design and writing</li> </ul> <p>Scheduling of work</p>



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 <b>ZIMBABWE</b> MINISTRY OF HIGHER AND TERTIARY EDUCATION, INNOVATION, SCIENCE AND TECHNOLOGY DEVELOPMENT SKILLS PROFICIENCY SCHEDULE		<b>CODE</b>	
<b>INDUSTRY:</b> Electrical Engineering	<b>TRADE/OCCUPATION:</b> Instrumentation & Control Technician	<b>CLASS/LEVEL:</b> National Diploma	
DUTY C: Perform PLC Programming			
Pre-requisites: National Certificate	Approval Date:	Review Date:18 - 20 March 2014	
TASK	STEPS	PROFICIENCY INDICATORS	RELATED KNOWLEDGE
C.2 Prepare maintenance schedule	<ul style="list-style-type: none"> <li>➤ Tabulate gathered data</li> <li>➤ Analyse the tabulated data</li> <li>➤ Create performance curve from statistics</li> <li>➤ Construct periods of maintenance required</li> <li>➤ Prepare a maintenance chart</li> </ul>	<ul style="list-style-type: none"> <li>• Instrument performance data is gathered</li> <li>• Data curves are compared to the standard</li> <li>• Data conversions and performance curves are created</li> <li>• Maintenance schedule is compiled</li> <li>• Performance calendar is generated</li> <li>• Maintenance charts are prepared</li> <li>• Previous maintenance schedules are reviewed</li> </ul>	<b>WORK-PLACE ESSENTIAL SKILLS</b>

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Pre-requisites: National Certificate	Approval Date:	PROFESSIONAL PROFICIENCY INDICATORS	Review Date: 18 - 20 March 2014 WORKPLACE ESSENTIAL SKILLS
TASK	STEPS	RELATED KNOWLEDGE	
C.3 Formulate maintenance procedures	<ul style="list-style-type: none"> <li>• List maintenance methods</li> <li>• Compare and contrast the methods</li> <li>• Select most applicable maintenance method</li> <li>• Compile a systematic way of maintenance</li> </ul>	<ul style="list-style-type: none"> <li>• Instrument's technical documents are used</li> <li>• Various methods of maintenance are examined</li> <li>• Advantages and disadvantages of methods are noted</li> <li>• Most appropriate methods are combined</li> <li>• A draft maintenance procedure is prepared</li> <li>• Draft maintenance procedure is refined to the final maintenance procedure</li> <li>• Maintenance procedure is filed</li> </ul>	

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<b>TASK</b>	<b>PRE-REQUISITES:</b> National Certificate	<b>Approval Date:</b>	<b>WORK PLACE</b>	<b>ESSENTIAL SKILLS</b>
<b>STEPS</b>		<b>PROFICIENCY INDICATORS</b>	<b>RELATED KNOWLEDGE</b>	
C.4 <b>Overhaul field instruments</b>	<ul style="list-style-type: none"> <li>• Select appropriate equipment, tools and materials</li> <li>• Assess the current state of the instrument</li> <li>• Mount instrument on to a bench</li> <li>• Mark out matching components</li> <li>• Dismantle instrument according to procedure</li> <li>• Check for wear and tear</li> <li>• Replace worn-out parts</li> <li>• Lubricate moving parts</li> <li>• Assemble instrument according to maintenance procedure</li> </ul>	<ul style="list-style-type: none"> <li>• Appropriate tools and materials are selected and used</li> <li>• Condition of instrument is noted</li> <li>• Standard mounting system is employed</li> <li>• Appropriate markings are made</li> <li>• Correct dismantling sequence is applied</li> <li>• All accessories are checked for wear and tear</li> <li>• Manufacturer's recommended parts are used for replacement</li> <li>• Ideal lubricating agents are used</li> </ul>		

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Pre-requisites: National Certificate	Approval Date:	RELATED KNOWLEDGE	Review Date:18 - 20 March 2014
TASK	STEPS	PROFICIENCY INDICATORS	WORK-PLACE ESSENTIAL SKILLS
C.5  Prepare a maintenance report	<ul style="list-style-type: none"> <li>• Check the instrument for proper operation</li> </ul>	<ul style="list-style-type: none"> <li>• Assembly diagrams are used</li> <li>• Assembled instrument is set up in plant position</li> <li>• Process signals are applied to the instrument</li> <li>• Plant conditions are simulated</li> <li>• Test results are noted</li> </ul>	<ul style="list-style-type: none"> <li>Systematic data layout is prepared</li> <li>Name of maintenance procedure is documented</li> <li>Maintenance procedure used is attached</li> </ul>

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Pre-requisites: National Certificate	PROFICIENCY INDICATORS	WORK-PLACE ESSENTIAL SKILLS	
TASK STEPS	RELATED KNOWLEDGE		
<ul style="list-style-type: none"> <li>• Identify responsible personnel for maintenance</li> <li>• Indicate next maintenance date</li> </ul>	<ul style="list-style-type: none"> <li>• Test results are presented</li> <li>• Name and rank of responsible personnel is presented</li> <li>• Next calibration date is indicated</li> <li>• Pre and post maintenance behaviour is noted</li> <li>• Spare stocks recommendations are noted</li> </ul>		

**TOOLS AND EQUIPMENT NECESSARY TO COMPLETE THIS DUTY:**

Insulated screw driver	Crimping tool
Side cutters set	Test meter
Cable knives	Hacksaw
Combination spanners	Pop rivet guns
Allen keys	Paint brush
Cable stripper	Soldering station
Drilling machine	Adjustable spanner set

**MATERIALS**

Computer software	Stationery
Insulation tape	Cables
Slotted trunking	Bolts and nuts
Rivets	Pipes
Soldering wire	Paint

**HEALTH, SAFETY AND ENVIRONMENTAL ISSUES RELATED TO THIS DUTY:**

Housekeeping	Workshop safety and health regulations
First Aid kit	Waste separation
Environmental regulations	Plant isolation
Personal Protective Equipment	

**SPECIFIC WORKER TRAITS REQUIRED IN COMPLETING THIS DUTY:**

Team worker
Sober-minded
Punctual
Focused
Able to communicate
Creative
Target oriented

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INDUSTRY: Electrical Engineering		TRADE/OCCUPATION: Instrumentation & Control Technician		CLASS/LEVEL: National Diploma	CODE
PRE-REQUISITES:	NATIONAL CERTIFICATE	APPROVAL DATE:	RELATED KNOWLEDGE INDICATORS	WORK-PLACE ESSENTIAL SKILLS	REVIEW DATE:18 - 20 MARCH 2014
TASK	STEPS				
D.1 Develop training programmes	<ul style="list-style-type: none"> <li>➤ Identify subordinates training needs</li> <li>➤ Interview subordinates on work related issues</li> <li>➤ Interpret up-to-date training models</li> <li>➤ Formulate a training structure</li> </ul>	<ul style="list-style-type: none"> <li>• Interview questions are formulated</li> <li>• Subordinates' strengths and weaknesses are noted</li> <li>• Subordinates weak areas are analysed</li> <li>• A training structure is drafted</li> <li>• Training model results are documented</li> </ul>	<ul style="list-style-type: none"> <li>• Supervision</li> <li>• Delegation of work</li> <li>• Ability to resolve disputes</li> <li>• Knowledge of social traits</li> <li>• Knowledge of code of conduct</li> <li>• Knowledge of Labour Legislation</li> <li>• Vast knowledge of Instrumentation and Control</li> </ul>	<ul style="list-style-type: none"> <li>• Literacy</li> <li>• Computer literacy</li> <li>• Scheduling of work</li> <li>• Interpretation of documents</li> <li>• Counselling</li> <li>• Disciplining</li> <li>• Training skills</li> </ul>	
D.2 Monitor subordinates' performance	<ul style="list-style-type: none"> <li>➤ Delegate duties to subordinates</li> <li>➤ Compare subordinates' performance against expected performance</li> <li>➤ Tabulate time taken to complete a task</li> <li>➤ Compile a performance report</li> </ul>	<ul style="list-style-type: none"> <li>• Job cards are issued to subordinates</li> <li>• Shortcomings are noted</li> <li>• Skills of subordinates are classified</li> <li>• A performance report is compiled</li> </ul>			



**MINISTRY OF HIGHER AND TERTIARY EDUCATION,  
INNOVATION, SCIENCE AND TECHNOLOGY  
DEVELOPMENT SKILLS PROFICIENCY SCHEDULE**

 <b>ZIMBABWE</b>	<b>MINISTRY OF HIGHER AND TERTIARY EDUCATION, INNOVATION, SCIENCE AND TECHNOLOGY DEVELOPMENT SKILLS PROFICIENCY SCHEDULE</b>	<b>CODE</b>		
<b>INDUSTRY:</b> Electrical Engineering	<b>TRADE/OCCUPATION:</b> Instrumentation & Control Technician	<b>CLASS/LEVEL:</b> National Diploma		
<b>DUTY D: Perform PLC Programming</b>	<b>Pre-requisites:</b> National Certificate	<b>Approval Date:</b> 18 - 20 March 2014		
TASK	STEPS	PROFICIENCY INDICATORS	RELATED KNOWLEDGE	WORK PLACE ESSENTIAL SKILLS
<b>D.3 Handle subordinates disputes and grievances</b>	<ul style="list-style-type: none"> <li>➤ Evaluate the cause of a dispute</li> <li>➤ Schedule a meeting with subordinates to hear their grievances</li> <li>➤ Solve subordinates grievances</li> <li>➤ Issue out warnings to misbehaving subordinates</li> <li>➤ Solve differences between subordinates</li> </ul>	<ul style="list-style-type: none"> <li>• The cause of a dispute is evaluated</li> <li>• Disputes reports are written</li> <li>• Grievances are referred to relevant authorities</li> <li>• Minutes are recorded</li> <li>• Code of conduct is read</li> <li>• Warning reports are filed</li> </ul>		
<b>D.4 Appraise subordinates</b>	<ul style="list-style-type: none"> <li>➤ Fill in the appraisal form</li> <li>➤ Assess subordinates qualifications</li> <li>➤ Assess subordinates skills and abilities</li> </ul>	<ul style="list-style-type: none"> <li>• Performance report is written</li> <li>• Subordinates qualifications are documented</li> <li>• Subordinates skills and abilities are analysed</li> <li>• A recommendation report is written</li> </ul>		

**Manpower Planning and Development (Electrical Industry)  
(Amendment) Notice, 2021 (No. 16)**

<b>MINISTRY OF HIGHER AND TERTIARY EDUCATION, INNOVATION, SCIENCE AND TECHNOLOGY DEVELOPMENT SKILLS PROFICIENCY SCHEDULE</b>   <b>ZIMBABWE</b>		<b>CODE</b> <div style="border: 1px solid black; height: 50px; width: 100%;"></div>	
<b>INDUSTRY:</b> Electrical Engineering	<b>TRADE/OCCUPATION:</b> Instrumentation & Control Technician	<b>CLASS/LEVEL:</b> National Diploma	
<b>DUTY D: Perform PLC Programming</b>		<b>Approval Date:</b> 18 - 20 March 2014	
<b>Pre-requisites:</b> National Certificate	<b>PROFICIENCY INDICATORS</b>	<b>RELATED KNOWLEDGE</b>	<b>WORK PLACE ESSENTIAL SKILLS</b>
<b>TASK</b> <b>STEPS</b>	<b>D.5</b> Conduct routine safety talks ▲ Provide subordinates with enough protective clothing ▲ Issue out work permits ▲ Train subordinates on safe use of equipment	<ul style="list-style-type: none"> <li>• Safety meeting minutes are written</li> <li>• Protective clothing is issued out to subordinates</li> <li>• Work permits are signed</li> <li>• Safety training is conducted</li> <li>• Work permits are displayed at the work place</li> <li>• Subordinates are monitored for compliance with health and safety requirements</li> </ul>	

**TOOLS AND EQUIPMENT NECESSARY TO COMPLETE THIS DUTY:**

- Computer
- Printer
- Manuals
- Files
- Code of conduct

**MATERIALS**

- Stationery

**HEALTH, SAFETY AND ENVIRONMENTAL ISSUES RELATED TO THIS DUTY:**

- Housekeeping
- First Aid kit
- Environmental Regulations
- Personal Protective Equipment
- Workshop safety and health regulations
- Waste separation
- Plant isolation

**SPECIFIC WORKER TRAITS REQUIRED TO COMPLETE THIS DUTY:**

- Communication
- Sober-minded
- Leadership
- Target-oriented

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<b>INDUSTRY:</b> Electrical Engineering	<b>TRADE/OCCUPATION:</b> Instrumentation & Control Technician	<b>CLASS/LEVEL:</b> National Diploma				
<b>DUTY E: Perform PLC Programming</b>		<b>Approval Date:</b> Review Date:18 - 20 March 2014				
<b>TASK</b>	<b>PRE-REQUISITES: National Certificate DUTY E: Perform PLC Programming</b>	<b>PROFESSIONAL SKILL INDICATORS</b>				
E1 <b>Carry out plant checks</b>	<ul style="list-style-type: none"> <li>➤ Clean process instruments</li> <li>➤ Observe physical condition of instruments</li> <li>➤ Check input and output</li> </ul>	<table border="0"> <thead> <tr> <th><b>RELATED KNOWLEDGE</b></th><th><b>WORK-PLACE ESSENTIAL SKILLS</b></th></tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> <li>• Instruments are free from dust and dirt</li> <li>• Present state and condition of instrument are recorded</li> <li>• Good state of interface is ensured</li> <li>• Unusual conditions are noted down</li> <li>• Detailed plant check report is filed</li> <li>• Process operators are consulted to give their views interfaces</li> <li>• Write down a plant check report</li> </ul> </td><td> <ul style="list-style-type: none"> <li>• Interpretation of wiring diagram</li> <li>• Use of hand tools</li> <li>• Use of measuring tools</li> <li>• Knowledge of materials</li> <li>• Knowledge of colour codes</li> <li>• Use of marking tools</li> <li>• Use of electrical machinery</li> <li>• Ability to perform component testing</li> <li>• Component identification</li> <li>• Purpose and operating principle</li> <li>• Knowledge of loop diagnostic methods</li> <li>• Programme design and writing</li> <li>• Use of various intelligent devices</li> <li>• Knowledge of process and instruments</li> <li>• Ability to create back ups</li> </ul> </td></tr> </tbody> </table>	<b>RELATED KNOWLEDGE</b>	<b>WORK-PLACE ESSENTIAL SKILLS</b>	<ul style="list-style-type: none"> <li>• Instruments are free from dust and dirt</li> <li>• Present state and condition of instrument are recorded</li> <li>• Good state of interface is ensured</li> <li>• Unusual conditions are noted down</li> <li>• Detailed plant check report is filed</li> <li>• Process operators are consulted to give their views interfaces</li> <li>• Write down a plant check report</li> </ul>	<ul style="list-style-type: none"> <li>• Interpretation of wiring diagram</li> <li>• Use of hand tools</li> <li>• Use of measuring tools</li> <li>• Knowledge of materials</li> <li>• Knowledge of colour codes</li> <li>• Use of marking tools</li> <li>• Use of electrical machinery</li> <li>• Ability to perform component testing</li> <li>• Component identification</li> <li>• Purpose and operating principle</li> <li>• Knowledge of loop diagnostic methods</li> <li>• Programme design and writing</li> <li>• Use of various intelligent devices</li> <li>• Knowledge of process and instruments</li> <li>• Ability to create back ups</li> </ul>
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ZIMBABWE	MINISTRY OF HIGHER AND TERTIARY EDUCATION, INNOVATION, SCIENCE AND TECHNOLOGY DEVELOPMENT SKILLS PROFICIENCY SCHEDULE	CODE	
INDUSTRY: Electrical Engineering	TRADE/OCCUPATION: Instrumentation & Control Technician	CLASS/LEVEL: National Diploma	
DUTY E: Perform PLC Programming	Approval Date:	Review Date:18 - 20 March 2014	
Pre-requisites: National Certificate	PROFICIENCY INDICATORS	WORK-PLACE ESSENTIAL SKILLS	
TASK	STEPS	RELATED KNOWLEDGE	
E.2 Troubleshoot faulty instruments	<ul style="list-style-type: none"> <li>➢ Select appropriate tools and equipment</li> <li>➢ Check history of similar faults on records</li> <li>➢ Inspect individual components of instruments</li> <li>➢ Review technical manuals to find fault codes</li> </ul>	<ul style="list-style-type: none"> <li>• Test meter is used</li> <li>• Error code charts are used</li> <li>• Component inspection document is filled</li> <li>• Respective technical manuals are employed to find the source of the fault</li> <li>• Manufacturer's support team is contacted</li> <li>• Worn parts are identified</li> </ul>	

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MINISTRY OF HIGHER AND TERTIARY EDUCATION, INNOVATION, SCIENCE AND TECHNOLOGY DEVELOPMENT SKILLS PROFICIENCY SCHEDULE   <b>ZIMBABWE</b>		CODE
INDUSTRY: Electrical Engineering  DUTY E: Perform PLC Programming	TRADE/OCCUPATION: Instrumentation & Control Technician	CLASS/LEVEL: National Diploma
Pre-requisites: National Certificate	Approval Date:	Review Date: 18 - 20 March 2014
TASK	STEPS	PROFICIENCY INDICATORS
E.3 Rectify faults found	<ul style="list-style-type: none"> <li>➤ Select required tools and materials</li> <li>➤ Take faulty instrument to work bench</li> <li>➤ Dismantle faulty instrument according to procedure</li> <li>➤ Replace old and damaged components</li> <li>➤ Lubricate instrument</li> <li>➤ Assemble instrument</li> </ul>	<p>Appropriate tools and equipment are selected and used</p> <p>Required lubrication</p> <p>agents are used</p> <p>Correct material and parts are sourced</p> <p>Faulty instrument is taken to the workshop</p> <p>Defective parts are replaced</p> <p>Instrument is overhauled</p>

INDUSTRY: Electrical Engineering		TRADE/OCCUPATION: Instrumentation & Control Technician		CLASS/LEVEL: National Diploma	
DUTY E: Perform PLC Programming		Approval Date:		Review Date:18 - 20 March 2014	
TASK	STEPS	PROFICIENCY INDICATORS	RELATED KNOWLEDGE	WORK-PLACE ESSENTIAL SKILLS	
E.4 Test instrument for functionality	<ul style="list-style-type: none"> <li>➤ Mount instrument on test bench</li> <li>➤ Check if outputs adhere to standards</li> <li>➤ Perform reliability test</li> <li>➤ Prepare test report</li> <li>➤ Prepare certificate tags</li> </ul>	<ul style="list-style-type: none"> <li>• Instrument is brought into the workshop and mounted on test bench</li> <li>• Input-output standard charts are used</li> <li>• Calculations are done for reliability checks</li> <li>• Process simulation is carried out</li> <li>• Test reports are filed</li> <li>• Tags are attached to repaired instruments</li> </ul>			

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 <p><b>ZIMBABWE</b></p> <p>MINISTRY OF HIGHER AND TERTIARY EDUCATION, INNOVATION, SCIENCE AND TECHNOLOGY DEVELOPMENT SKILLS PROFICIENCY SCHEDULE</p>	<b>CODE</b> <div style="border: 1px solid black; height: 40px; width: 100%;"></div>								
	<b>CLASS/LEVEL:</b> National Diploma								
<b>INDUSTRY:</b> Electrical Engineering <b>DUTY E: Perform PLC Programming</b> <b>Pre-requisites:</b> National Certificate	<b>TRADE/OCCUPATION:</b> Instrumentation & Control Technician								
<b>TASK</b> E.5 <b>Return instrument to service</b>	<b>Approval Date:</b> 18 - 20 March 2014 <b>WORK-PLACE ESSENTIAL SKILLS</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">TASK</th> <th style="text-align: left; padding: 5px;">STEPS</th> <th style="text-align: left; padding: 5px;">PROFICIENCY INDICATORS</th> <th style="text-align: left; padding: 5px;">RELATED KNOWLEDGE</th> </tr> </thead> <tbody> <tr> <td style="text-align: left; padding: 5px;">E.5</td> <td style="text-align: left; padding: 5px;">           ▷ Acquire fittings which fit the process            ▷ Select proper housing            ▷ Insert proper signal terminals            ▷ Assemble instrument into process            ▷ Verify instrument output has not deviated         </td> <td style="text-align: left; padding: 5px;"> <ul style="list-style-type: none"> <li>• Fittings of the correct size are inserted</li> <li>• Housing of the correct ingress-protection is selected</li> <li>• The proper colour code is used</li> <li>• Input-output terminals of correct size are constructed</li> <li>• Adequate fasteners are used</li> <li>• Output signals are checked</li> </ul> </td> <td style="text-align: left; padding: 5px;"></td> </tr> </tbody> </table>	TASK	STEPS	PROFICIENCY INDICATORS	RELATED KNOWLEDGE	E.5	▷ Acquire fittings which fit the process ▷ Select proper housing ▷ Insert proper signal terminals ▷ Assemble instrument into process ▷ Verify instrument output has not deviated	<ul style="list-style-type: none"> <li>• Fittings of the correct size are inserted</li> <li>• Housing of the correct ingress-protection is selected</li> <li>• The proper colour code is used</li> <li>• Input-output terminals of correct size are constructed</li> <li>• Adequate fasteners are used</li> <li>• Output signals are checked</li> </ul>	
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**TOOLS AND EQUIPMENT NECESSARY TO COMPLETE THIS DUTY:**

Insulated screw driver	Side cutters set
Combination spanners	Hacksaw
Allen keys	Pop rivet guns
Cable stripper	Paint brush
Drilling machine	Soldering station
Crimping tool	Adjustable spanner set
Test meter	Pipe wrench
<b>MATERIALS</b>	
Computer software	Rivets
Stationery	Soldering wire
Insulated Lugs	Cables
Insulation tape	Bolts and nuts
Slotted trunking	Pipes

**HEALTH, SAFETY AND ENVIRONMENTAL ISSUES RELATED TO THIS DUTY:**

Housekeeping	Personal Protective Equipment
First Aid kit	Workshop safety and health regulations
Environmental regulations	Waste separation

**SPECIFIC WORKER TRAITS REQUIRED IN COMPLETING THIS DUTY:**

Team worker	
Sober-minded	
Punctual	
Focused	
Able to communicate	
Creative	
Target oriented	

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<b>MINISTRY OF HIGHER AND TERTIARY EDUCATION, INNOVATION, SCIENCE AND TECHNOLOGY DEVELOPMENT SKILLS PROFICIENCY SCHEDULE</b>   <b>ZIMBABWE</b>		<b>CODE</b> <input type="text"/>
<b>INDUSTRY:</b> Electrical Engineering <b>DUTY F: Perform PLC Programming</b> Pre-requisites: National Certificate	<b>TRADE/OCCUPATION:</b> Instrumentation & Control Technician	<b>CLASS/LEVEL:</b> National Diploma
<b>TASK</b> <b>STEPS</b>	<b>PROFICIENCY INDICATORS</b> <b>KNOWLEDGE</b> <b>RELATED KNOWLEDGE</b>	<b>Review Date:</b> 6 - 7 March 2014 <b>WORK-PLACE ESSENTIAL SKILLS</b>
<b>F.1</b> <b>Gather Information</b> <ul style="list-style-type: none"> <li>➤ Collect wiring diagrams from different working areas</li> <li>➤ Enter all job cards into the system</li> <li>➤ Combine all safety documents</li> <li>➤ Write project reports</li> <li>➤ Collect appropriate/relevant manuals</li> </ul>	<ul style="list-style-type: none"> <li>• All wiring diagrams are put in the same file</li> <li>• All jobcards are entered in the system</li> <li>• Project reports are written</li> <li>• All necessary manuals are available</li> <li>• Manuals are downloaded</li> <li>• Manuals are printed</li> </ul>	<ul style="list-style-type: none"> <li>• Computer literacy</li> <li>• Interpretation of tables</li> <li>• Knowledge of document archiving</li> <li>• Electronic circuit design</li> <li>• Document indexing</li> </ul> <ul style="list-style-type: none"> <li>• Interpretation of results</li> <li>• Scheduling of work</li> <li>• Interpretation of codes</li> </ul>

ZIMBABWE	MINISTRY OF HIGHER AND TERTIARY EDUCATION, INNOVATION, SCIENCE AND TECHNOLOGY DEVELOPMENT SKILLS PROFICIENCY SCHEDULE	CODE
INDUSTRY: Electrical Engineering	TRADE/OCCUPATION: Instrumentation & Control Technician	CLASS/LEVEL: National Diploma
DUTY/F: Perform PLC Programming Pre-requisites: National Certificate	Approval Date: PROFESSIONAL INDICATORS	Review Date: 6 - 7 March 2014 WORK PLACE ESSENTIAL SKILLS
TASK F.2 Prepare documents	STEPS <ul style="list-style-type: none"> <li>➤ Generate work procedures</li> <li>➤ Update calibration register</li> <li>➤ Create wiring diagrams for the new projects</li> <li>➤ Compile maintenance report</li> <li>➤ Develop calibration procedures</li> </ul>	RELATED KNOWLEDGE <ul style="list-style-type: none"> <li>• Work procedures are documented</li> <li>• All documents are indexed</li> <li>• Calibration register is updated</li> <li>• Maintenance reports are printed</li> <li>• Calibration procedures are written</li> </ul>

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TASK	STEPS	Approval Date: <b>PROFICIENCY INDICATORS</b>	Review Date: 6 - 7 March 2014 <b>RELATED KNOWLEDGE</b>
<b>F.3</b> Archive Documents	<ul style="list-style-type: none"> <li>➤ Classify documents according to sections of the plant</li> <li>➤ Label all files</li> <li>➤ Create a folder for the calibration register</li> <li>➤ Create and assign document codes</li> <li>➤ Create an archive register</li> </ul>	<ul style="list-style-type: none"> <li>• Files are clearly and systematically labelled</li> <li>• Documents are grouped according to their type</li> <li>• Documents are shelved in alpha-numerical order</li> <li>• Sequential codes are assigned to related documents</li> <li>• A register with all documents in archives is created</li> <li>• A searchsoftware is used to easily find documents in the archives.</li> </ul>	<b>WORK PLACE ESSENTIAL SKILLS</b>

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DUTY F: Perform PLC Programming	Approval Date:	Review Date: 6 - 7 March 2014
Pre-requisites: National Certificate	PROFICIENCY INDICATORS	WORKPLACE ESSENTIAL SKILLS
TASK	STEPS	RELATED KNOWLEDGE
F.4 Review and revise documents	<ul style="list-style-type: none"> <li>➢ Identify documents that need revision</li> <li>➢ Acquire relevant information for document revision</li> <li>➢ Update documents</li> <li>➢ Certify the revisions</li> </ul>	<ul style="list-style-type: none"> <li>• Relevant information for revision is acquired</li> <li>• Out-dated documents are collected</li> <li>• Documents are updated</li> <li>• Standard upgrades and changes are noted</li> </ul>

**TOOLS AND EQUIPMENT NECESSARY TO COMPLETE THIS DUTY:**

Computer  
Printer  
Drawing board

Manpower Planning and Development (Electrical Industry)  
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**MATERIALS**

Stationery  
Blank disks

**HEALTH, SAFETY AND ENVIRONMENTAL ISSUES RELATED TO THIS DUTY:**

Personal protective equipment  
Housekeeping  
Fire protection system

**SPECIFIC WORKER TRAITS REQUIRED TO COMPLETE THIS DUTY:**

Sober minded  
Team worker  
Good communication skills  
Target oriented

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