ELEMENT	PERFORMANCE CRITERIA
These describe the key outcomes	These are assessable statements which specify the required
which make up workplace	level of performance for each of the elements.
function.	(Bold and italicised terms are elaborated in the Range)
3. Program automation system	3.1 Application software and drivers are installed as per
	the original equipment manufacturer's specifications
	(OEMS).
	3.2 Program is developed as per <i>programming language</i> .
	3.3 Program is debugged as per work requirement.
	3.4 Program is uploaded to the controller as per OEMS.
	3.5 Control parameters are configured as per automation.
	system requirements/commissioning data.
4. Commission Automation	4.1 Unit test is conducted as per OEMS, IEE and KEBS
System	standards.
	4.2 Functional tests are conducted as per system
	requirements.
	4.3 System integration tests are conducted as per system
	requirements and OEMS.
	4.4 Documentation is maintained as per the system requirements.
	4.5 End user training is conducted as per the system
	requirements.
	4.6 Final inspection and validation is conducted as per
	design specifications, safety standards and regulatory
	requirements.
	4.7 Automation system is handed over to the end user as
	per organization requirement.
5. Monitor automation system	5.1 Monitoring and diagnostic tools are developed as per
	system requirements.
	5.2 Monitoring and diagnostic tools are integrated as per
	system requirements
	5.3 Data is extracted based on user monitoring
	requirements.
	5.4 Data is stored as per user monitoring requirements.
	5.5 Data is analyzed based on system optimization to yield
	metrics.
	5.6 System optimization is carried out as per yielded
	metrics
6. Maintain automation system	6.1 Monitoring and diagnostic tools are developed as per
	system requirements.

ELEMENT	PERFORMANCE CRITERIA
These describe the key outcomes	These are assessable statements which specify the required
which make up workplace	level of performance for each of the elements.
function.	(Bold and italicised terms are elaborated in the Range)
	6.2 Monitoring and diagnostic tools are integrated as per
	system requirements.
	6.3 Data is extracted based on user monitoring
	requirements.
	6.4 Data is stored as per user monitoring requirements.
	6.5 Data is analyzed based on system optimization to yield metrics.
	6.6 System optimization is carried out as per yielded
	metrics.

RANGE

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

	1
Variable	Range
1. Automation technology may include but not limited to:	 PLC Microcontroller
2. Automation components may include but not limited to:	Sensorsactuators
3. <i>Electrical Tests</i> may include but not limited to:	Continuity testsInsulation resistance testPolarity test
4. Programming language may include but not limited to:	 Ladder diagram Instruction list Functional block diagram Python

REQUIRED KNOWLEDGE AND UNDERSTANDING

The individual needs to demonstrate knowledge and understanding of:

• The manufacturer's warranty requirements relating to installation of automation systems related components.

- The legal requirements relating to commissioning activities for electrical installation systems and components.
- Legislation and workplace procedures relevant to:
 - Environment, health and safety;
 - Appropriate PPE (personal protective Equipment)
- County Government bylaws
 - EPRA (Energy & Petroleum Regulatory Authority)
 - NEMA
 - CA
- The importance of documenting automation system installation information
- The importance of working to agreed timelines
- How to prepare, interpret and use sources of technical information for scheduled automation system installation activities
- The importance of using the correct sources of technical information.
- The purpose of and how to use identification codes (e.g., colour codes).
- The operating specifications and tolerances for different types of installed systems
- The hazards associated with operating the system.
- Identification of users to be trained

FOUNDATION SKILLS

The individual needs to demonstrate the following additional skills:

- Communications (verbal and written);
- Proficient in ICT;
- Time management;
- Analytical
- Faults troubleshooting
- Problem solving;
- Planning;
- Decision making;
- First aid;
- Report writing;

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and understanding and range.

1. Critical Aspects Assessment requires evidence that the candidate:	
of Competency 1.1 Developed system design plan as per work requirement.	
1.2 Carried out modelling, simulation and prototyping as per	design.
1.3 Installed conduits, trunks, enclosures and support systems	s as per
layout diagram and IET regulations.	
1.4 Installed automation components as per IET regulations a	and
manufacturer's manual.	
1.5 Performed cable lugging, glanding and termination as per standards.	r acceptable
1.6 Developed program as per programming language.	
1.7 Uploaded program to the controller as per OEMS.	
1.8 Configured Control parameters as per automation system	1
requirements/commissioning data.	
1.9 Conducted Functional tests as per system requirements.	
1.10 Handed over Automation system to the end user as pe	er
organization requirement.	
1.11 Maintained Documentation as per the system requires	ments.
1.12 Integrated Monitoring and diagnostic tools as per syst	
requirements.	
1.13 Prepared System maintenance check list as per tasks a	and
manufacturer's manual.	
1.14 Diagnosed Faults as per service manual.	
2. Resource The following resources should be provided:	
Implications 2.1 Appropriately simulated environment where assessment of	can take
place.	
2.2 Access to relevant work environments.	
2.3 Resources relevant to the proposed activities or task.	
3. Methods of Competency may be assessed through:	
Assessment 3.1 Practical	
3.2 Projects	
3.3 Third party report	
3.4 Portfolio of evidence	
3.5 Written tests	
3.6 Oral questioning	

4.	Context of Assessment	Competency may be assessed in a work place or a simulated work place.
5.	Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.

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