

021306T4 ICI

INDUSTRIAL CONTROLS INSTALLATION LEVEL 6

ENG/OS/IC/CR/02/6

Manage Programmable Logic Controllers (PLCs) And Scada Systems

July/ August 2025



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)**

easyvet.com

INSTRUCTIONS TO ASSESSOR

1. Assess the candidate as the practical progresses observing the critical areas
2. You are required to mark the practical as the candidate perform the tasks
3. You are required to take video clips at critical points
4. Ensure the candidate has a name tag and registration code at the back and front

OBSERVATION CHECKLIST

Candidate's name & Registration Code			
Assessor's name & Registration Code			
Venue of Assessment			
Date of assessment			
Items to be evaluated: <i>Please award marks as appropriate. Give a brief comment on your observation.</i>	Marks available	Marks obtained	Comments
1. Observed safety. <i>(Award 1 mark each for safety boots and dustcoat)</i>	2		
2. Developed the required control of light system <i>(Award 4 marks for correct hardwire of PLC i.e. switch, 2 lamps and power)</i>	4		
3. Identified and used the appropriate programming software <i>(Award 1 mark each PLC & HMI)</i>	2		
4. Developed a working PLC program	3		
5. Developed a working HMI program	3		
6. Developed the right MHI interface for the SCADA system <i>(Award 2 mark for each component and correct labelling)</i>	6		
7. Established SCADA system communication; <i>(Award 2 mark each for correct communication of PLC & HMI)</i>	4		
8. Backed up SCADA programs <i>(Award 1 mark for saving work and 3 marks for backing up in flash drive)</i>	4		

9. Troubleshoot and debugged SCADA programs <i>(Award 3 marks max for any errors corrected)</i>	3		
10. Downloaded SCADA program to the SCADA system <i>(Award 3 marks each for downloading PLC program and HMI program successfully)</i>	6		
11. Identified and rectified any fault found in the SCADA system <i>(Award 3 marks max for any hardware faults corrected)</i>	3		
Total	40		

ASSESSMENT OUTCOME

The candidate was found to be:

Competent Not yet competent

(Please tick as appropriate)

(The candidate is competent if the candidate obtains at least 20 marks (50%) of the 40 marks)

Feedback from candidate:

Feedback to candidate:

Candidate's Signature

Date

Assessor's Signature

Date

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