

NOTE ON PERFORMANCE TESTING

Performance Profile Sheet(s) are included in a format that can be easily photocopied for each trainee. This examination is designed to measure competency in the tasks taught in each module.

Please note the number of tasks to be tested while teaching each module. Each trainee should be tested on all the tasks listed on the Performance Profile Sheet(s). Before performance testing, the instructor should brief the trainees on:

- Test objectives and criteria
- Safety precautions
- Procedures for each task to be tested

The instructor administering the performance testing should also do the following:

- Ensure that all of the needed equipment is available and operating properly.
- Set up the testing stations.
- Organize and administer the test in a way that allows for optimal performance.
- Complete the Performance Profile Sheet(s) for each trainee by assigning a pass/fail score for each listed task. Also, include the testing date, and start and end times for each task in the rating boxes.
- Monitor adherence to all safety regulations and precautions.
- Provide adequate supervision to prevent injuries.
- Take immediate and effective action to remedy any emergency.

Performance Testing

If Performance Testing is done as part of the NCCER Standardized Craft Training Program, the following conditions must be met:

1. The Craft Instructor must hold valid NCCER instructor certification.
2. The training must be delivered through an Accredited Training Sponsor recognized by NCCER.
3. The specific performance testing must be completed successfully.
4. The results of the testing must be recorded on the Registration of Training Modules Form. This form must be provided to the local Accredited Training Sponsor to be forwarded to the NCCER Registry.

Craft: **Instrumentation Level Four**
Module: **Module One, 12402-16**
Module Title: **Instrument Calibration and Configuration**



TRAINEE NAME: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

Rating Levels: (1) Passed: performed task (2) Failed: did not perform task
 Also, list the date the testing for each task was completed.

Recognition: When testing for the NCCER Training Program, be sure to record Performance testing results on the Registration of Training Modules form, and submit the results to the Training Program Sponsor.

OBJECTIVE	TASK	RATING	DATE	START TIME	END TIME
2	Calibrate a pneumatic pressure transmitter using the proper equipment and complete the appropriate documentation.				
2	Calibrate a 4–20 mA pressure transmitter using the proper calibration equipment and complete the appropriate documentation.				
2	Calibrate a 4–20 mA temperature transmitter using the proper calibration equipment and complete the appropriate documentation.				
3	Calibrate a smart transmitter using a HART® communicator and complete the appropriate documentation.				
4	Calibrate a transducer and complete the appropriate documentation.				

Craft: **Instrumentation Level Four**
Module: **Module One, 12402-16**
Module Title: **Instrument Calibration and Configuration**



4	Calibrate the following valve positioners and complete the appropriate documentation:				
4	• Pneumatic positioner				
4	• Electro-pneumatic positioner				
4	• Smart positioner (digital valve controller)				

Craft: Instrumentation Level 4
Module: Module Two, 12410-16
Module Title: Proving, Commissioning, and Troubleshooting a Loop



TRAINEE NAME: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

Rating Levels: (1) Passed: performed task (2) Failed: did not perform task
 Also, list the date the testing for each task was completed.

Recognition: When testing for the NCCER Training Program, be sure to record Performance testing results on the Registration of Training Modules form, and submit the results to the Training Program Sponsor.

OBJECTIVE	TASK	RATING	DATE	START TIME	END TIME
1	Perform a continuity check on an electrical system and document the findings.				
1	Perform a continuity check on a pneumatic system and document the findings.				
2	Prove a loop and document its completion.				
3	Commission a loop.				
4	Troubleshoot a newly installed control loop.				
4	Troubleshoot an oscillating process.				

Craft: Instrumentation Level 4
Module: Module Three, 12405-16
Module Title: Tuning Loops



TRAINEE NAME: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

Rating Levels: (1) Passed: performed task (2) Failed: did not perform task
 Also, list the date the testing for each task was completed.

Recognition: When testing for the NCCER Training Program, be sure to record Performance testing results on the Registration of Training Modules form, and submit the results to the Training Program Sponsor.

OBJECTIVE	TASK	RATING	DATE	START TIME	END TIME
2	Perform open loop tuning.				
2	Perform closed loop tuning.				
2	Perform visual loop tuning.				

Craft: **Instrumentation Level 4**
Module: **Module Four, 12401-16**
Module Title: **Digital Logic Circuits**



TRAINEE NAME: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

Rating Levels: (1) Passed: performed task (2) Failed: did not perform task
 Also, list the date the testing for each task was completed.

Recognition: When testing for the NCCER Training Program, be sure to record Performance testing results on the Registration of Training Modules form, and submit the results to the Training Program Sponsor.

OBJECTIVE	TASK	RATING	DATE	START TIME	END TIME
1	Create the truth table that describes the behavior of an instructor-supplied schematic.				

Craft: **Instrumentation Level 4**
Module: **Module Five, 12406-16**
Module Title: **Programmable Logic Controllers**



TRAINEE NAME: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

Rating Levels: (1) Passed: performed task (2) Failed: did not perform task
 Also, list the date the testing for each task was completed.

Recognition: When testing for the NCCER Training Program, be sure to record Performance testing results on the Registration of Training Modules form, and submit the results to the Training Program Sponsor.

OBJECTIVE	TASK	RATING	DATE	START TIME	END TIME
1, 3	Given an instructor-provided PLC diagram, identify the basic components in a PLC system.				
4	Given an instructor-provided ladder diagram program, point out commonly used symbols and their meaning.				
4	Implement a simple logic circuit using an instructor-provided PLC platform or simulator.				

Craft: **Instrumentation Level 4**
Module: **Module Six, 12407-16**
Module Title: **Distributed Control Systems**



TRAINEE NAME: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

Rating Levels: (1) Passed: performed task (2) Failed: did not perform task
 Also, list the date the testing for each task was completed.

Recognition: When testing for the NCCER Training Program, be sure to record Performance testing results on the Registration of Training Modules form, and submit the results to the Training Program Sponsor.

OBJECTIVE	TASK	RATING	DATE	START TIME	END TIME
1, 2	Develop a diagram of the basic system architecture of a DCS, including the components and information flow.				

Craft: **Instrumentation Level 4**
Module: **Module Seven, 12409-16**
Module Title: **Analyzers and Monitors**



TRAINEE NAME: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

Rating Levels: (1) Passed: performed task (2) Failed: did not perform task
 Also, list the date the testing for each task was completed.

Recognition: When testing for the NCCER Training Program, be sure to record Performance testing results on the Registration of Training Modules form, and submit the results to the Training Program Sponsor.

OBJECTIVE	TASK	RATING	DATE	START TIME	END TIME
3	Determine the pH of a given solution and propose the proper adjustment.				