

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: Pipeline Electrical & Instrumentation

Module Number: 64204-02

Module Title: Process Control Theory



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

- Rating Levels:**
1. Passed: performed task.
 2. Failed: did not perform task.

Recognition: When testing for the NCCER Standardized Training Program, be sure to record Performance testing results on NCCER Training Report Form 200 and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
1, 2, 3	1. Draw and accurately label a block diagram for a typical basic process control loop.	
5	2. Identify the major components and signals in a given set of P&IDs.	
2, 3, 4	3. Satisfactorily identify the accuracies, ranges, spans and/or linearities of given instrumentation from typical documentation.	
6	4. Tune a control loop as set up by the instructor.	

Craft: Pipeline Electrical & Instrumentation

Module Number: 64205-02

Module Title: Supervisory Control Systems



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

- Rating Levels:**
1. Passed: performed task.
 2. Failed: did not perform task.

Recognition: When testing for the NCCER Standardized Training Program, be sure to record Performance testing results on NCCER Training Report Form 200 and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
1, 2	1. Identify symbols typically used in a ladder logic drawing.	
1, 2	2. Discuss the importance of protocols.	
1, 3, 4	3. Draw a block diagram of a typical SCADA system.	
1, 3, 4	4. Identify and discuss components of a data flow system from a drawing provided by the instructor.	

Craft: Pipeline E&I
Module Number: 64301-02
Module Title: Transformers



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

- Rating Levels:**
1. Passed: performed task.
 2. Failed: did not perform task.

Recognition: When testing for the NCCER Standardized Training Program, be sure to record Performance testing results on NCCER Training Report Form 200 and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
5	1. Make tap adjustments.	
2, 3, 4	2. Demonstrate the ability to connect instruments to potential and current transformers.	
2, 3, 4	3. Connect transformers in different configurations.	
5	4. Test for an open winding.	
5	5. Test for grounded winding.	

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Craft: Pipeline E&I

Module Number: 64302-02

Module Title: Switchgear and MCCs



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

- Rating Levels:**
1. Passed: performed task.
 2. Failed: did not perform task.

Recognition: When testing for the NCCER Standardized Training Program, be sure to record Performance testing results on NCCER Training Report Form 200 and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
1, 8	1. Make a high-voltage splice or termination.	
2, 4, 7	2. Test and maintain switchgear.	
6, 7	3. Test and maintain cables.	
3, 7	4. Test and maintain MCCs.	

Craft: Pipeline E&I

Module Number: 64303-02

Module Title: Low-Voltage and Standby Power



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

- Rating Levels:**
- 1. Passed: performed task.
 - 2. Failed: did not perform task.

Recognition: When testing for the NCCER Standardized Training Program, be sure to record Performance testing results on NCCER Training Report Form 200 and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
1	1. Adjust the frequency and output voltage of a generator set.	
2	2. Take specific gravity readings.	
2	3. Clean and maintain batteries.	
2	4. Measure cell voltage.	

continued

Craft: Pipeline E&I

Module Number: 64303-02

Module Title: Low-Voltage and Standby Power



Objective	TASK	RATING
3	5. Adjust float and equalize voltage on a charger.	
4	6. Connect AC and DC power to an inverter.	

Craft: Pipeline E&I
Module Number: 64304-02
Module Title: Power Quality



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

- Rating Levels:**
1. Passed: performed task.
 2. Failed: did not perform task.

Recognition: When testing for the NCCER Standardized Training Program, be sure to record Performance testing results on NCCER Training Report Form 200 and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
4, 8, 9	1. Install and test surge arrestors.	
3, 4, 5, 6	2. Given one or more situations involving poor power quality and the related cause, select the appropriate system protection and/or conditioning device used to correct the problem.	
8	3. Demonstrate the ability to test a UPS system.	

Craft: Pipeline E&I
Module Number: 64305-02
Module Title: Prime Movers



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

- Rating Levels:**
1. Passed: performed task.
 2. Failed: did not perform task.

Recognition: When testing for the NCCER Standardized Training Program, be sure to record Performance testing results on NCCER Training Report Form 200 and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
1	1. Verify space heaters are working.	
1	2. Verify and calibrate protection systems.	
1, 2	3. Connect an electric motor for the correct rotation.	
1	4. Change the bearing oil in a motor.	

continued

Craft: Pipeline E&I

Module Number: 64305-02

Module Title: Prime Movers



Objective	TASK	RATING
1	5. Perform insulation resistance testing on a motor.	
1, 2, 3	6. Identify components of systems discussed in the module.	

Craft: Pipeline E&I
Module Number: 64306-02
Module Title: Facility Auxiliary Systems



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

- Rating Levels:**
1. Passed: performed task.
 2. Failed: did not perform task.

Recognition: When testing for the NCCER Standardized Training Program, be sure to record Performance testing results on NCCER Training Report Form 200 and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
7	1. Maintain a rectifier.	
1-8	2. Identify any of the auxiliary systems found at your pipeline facility.	

Craft: Pipeline E&I
Module Number: 64307-02
Module Title: SCADA



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

- Rating Levels:**
1. Passed: performed task.
 2. Failed: did not perform task.

Recognition: When testing for the NCCER Standardized Training Program, be sure to record Performance testing results on NCCER Training Report Form 200 and submit the results to the Training Program Sponsor.

Objective	TASK	RATING
3	1. Draw a block diagram of a SCADA system.	
2, 5	2. Given a set of circumstances, react to a communications failure.	
4	3. Identify the four major hardware components of a PLC.	
3, 6	4. Troubleshoot a SCADA system using the seven-step procedure.	