

NOTE ON PERFORMANCE TESTING

Performance Profile Sheet(s) are included in a format that can be easily photocopied for each trainee. Performance tests are 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 for each task in the rating box.
- 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 National Center for Construction Education and Research Standardized Craft Training Program, the following conditions must be met:

1. The Craft Instructor must hold valid NCCER instructor certification for the craft being tested.
2. The training must be delivered through a Accredited Training Sponsor recognized by NCCER.
3. For every module, the specific performance testing must be completed to the satisfaction of the instructor.
4. The results of the testing must be recorded on the Training Report Form 200. This form must be provided to the local Accredited Training Sponsor to be forwarded to the NCCER National Registry.

Certified Plus Credential

Provided the sponsor is working through an NCCER-Accredited Assessment Center, candidates who successfully pass performance testing may be eligible for a Certified Plus Credential. A number of NCCER's Performance Profiles cross over to NCCER's Assessment Performance Verifications and may be completed simultaneously. Go to www.nccer.org and select the Assessments tab to locate the Performance Verifications associated with this craft. Note two other important conditions are required for the Certified Plus Credential:

1. Candidates must first pass the associated written assessment.
2. An NCCER-Accredited Assessment Administrator must sign off on the Performance Verification before it is submitted to NCCER.

Craft: Pipefitting

Module Number: 08201-06

Module Title: Piping Systems



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Learning Series

TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

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 Standardized Craft Training Program, be sure to record Performance testing results on Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

Certified Plus Credential: Trainees who successfully complete these performance tasks may be eligible for a Certified Plus Credential. Refer to the Note on Performance Testing of this Performance Profile for eligibility requirements, or contact NCCER for more information.

| Objective | TASK | RATING |
|-----------|---|--------|
| 2 | 1. Identify the type of piping system designated by a red color-code. | |
| 2 | 2. Identify the type of piping system designated by a yellow color-code. | |
| 2 | 3. Identify the type of piping system designated by a green color-code. | |
| 2 | 4. Identify the type of piping system designated by a bright blue color-code. | |

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Craft: Pipefitting

Module Number: 08202-06

Module Title: Drawings and Detail Sheets



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Learning Series

TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

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 Standardized Craft Training Program, be sure to record Performance testing results on Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

Certified Plus Credential: Trainees who successfully complete these performance tasks may be eligible for a Certified Plus Credential. Refer to the Note on Performance Testing of this Performance Profile for eligibility requirements, or contact NCCER for more information.

| Objective | TASK | RATING |
|-----------|--|--------|
| 1 | 1. Identify parts of a drawing: <ul style="list-style-type: none"> • Title block • Scales and Measurements • Symbols and abbreviations • Notes • Revision blocks • Coordinates | |
| 1 | 2. Interpret the following: <ul style="list-style-type: none"> • Drawing indexes • Line lists | |

continued

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Craft: Pipefitting

Module Number: 08202-06

Module Title: Drawings and Detail Sheets



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Learning Series

| Objective | TASK | RATING |
|-----------|---|--------|
| 2 | 3. Identify the following types of drawings: <ul style="list-style-type: none"> • Plot plans • Structural drawings • Elevation and section drawings • Equipment arrangement drawings • P&IDs • Isometric drawings • Spool drawings • Pipe support drawings and detail sheets • Orthographic drawings | |
| 3 | 4. Make field sketches: <ul style="list-style-type: none"> • Orthographic • Isometric | |

Craft: Pipefitting

Module Number: 08203-06

Module Title: Identifying and Installing Valves



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

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 Standardized Craft Training Program, be sure to record Performance testing results on Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

Certified Plus Credential: Trainees who successfully complete these performance tasks may be eligible for a Certified Plus Credential. Refer to the Note on Performance Testing of this Performance Profile for eligibility requirements, or contact NCCER for more information.

| Objective | TASK | RATING |
|------------------|---|---------------|
| 1 | 1. Identify valves that start and stop flow. | |
| 2 | 2. Identify valves that regulate flow. | |
| 3 | 3. Identify valves that relieve pressure. | |
| 4 | 4. Identify valves that regulate the direction of flow. | |
| 5 | 5. Identify valve actuators. | |

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Craft: Pipefitting

Module Number: 08203-06

Module Title: Identifying and Installing Valves



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Learning Series

| Objective | TASK | RATING |
|-----------|--|--------|
| 8 | 6. Given a select number of valves, match each valve to its given application. | |
| 9 | 7. Interpret valve markings and nameplate information. | |

**Module 08204-06 has no Performance Profile Sheet;
no performance testing is required for this module.**

Craft: Pipefitting

Module Number: 08205-06

Module Title: Threaded Pipe Fabrication



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

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 Standardized Craft Training Program, be sure to record Performance testing results on Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

Certified Plus Credential: Trainees who successfully complete these performance tasks may be eligible for a Certified Plus Credential. Refer to the Note on Performance Testing of this Performance Profile for eligibility requirements, or contact NCCER for more information.

| Objective | TASK | RATING |
|-----------|--|--------|
| 3 | 1. Read and interpret screwed fitting joint drawings. | |
| 5 | 2. Determine pipe lengths between fittings, using the center-to-center method. | |
| 5 | 3. Determine pipe lengths between fittings, using the center-to-face method. | |
| 5 | 4. Determine pipe lengths between fittings, using the face-to-face method. | |

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Craft: Pipefitting

Module Number: 08205-06

Module Title: Threaded Pipe Fabrication



| Objective | TASK | RATING |
|-----------|---|--------|
| 7 | 5. Given the length of travel of a 45-degree piping offset, calculate the length of the set. | |
| 7 | 6. Given the length of the set and the degree of the fittings, use the table of elbow constants to figure the travel and the run. | |
| 7 | 7. Calculate offsets, using the table of multipliers used to calculate offsets. | |
| 7 | 8. Calculate the travel of a rolling offset. | |
| 4, 6 | 9. Thread pipe, using manual threaders. | |
| 4, 6 | 10. Thread pipe, using a threading machine. | |
| 6 | 11. Apply pipe joint compound to the male threads of the pipe. | |
| 6 | 12. Make up the pipe and fittings. | |
| 6 | 13. Install a screwed valve. | |

Craft: Pipefitting

Module Number: 08206-06

Module Title: Socket Weld Pipe Fabrication



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Learning Series

TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

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 Standardized Craft Training Program, be sure to record Performance testing results on Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

Certified Plus Credential: Trainees who successfully complete these performance tasks may be eligible for a Certified Plus Credential. Refer to the Note on Performance Testing of this Performance Profile for eligibility requirements, or contact NCCER for more information.

| Objective | TASK | RATING |
|-----------|--|--------|
| 1, 2 | 1. Identify various socket weld fittings. | |
| 3 | 2. Interpret a socket weld drawing. | |
| 4 | 3. Calculate pipe lengths from line drawings, using the center-to-center method. | |
| 4 | 4. Calculate pipe lengths from line drawings, using the center-to-face method. | |

continued

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Craft: Pipefitting

Module Number: 08206-06

Module Title: Socket Weld Pipe Fabrication



| Objective | TASK | RATING |
|-----------|--|--------|
| 4 | 5. Calculate pipe lengths from line drawings, using the face-to-face method. | |
| 1, 2, 5 | 6. Align a 90-degree elbow to the end of a pipe. | |
| 1, 2, 5 | 7. Square a pipe into a 90-degree elbow. | |
| 1, 2, 5 | 8. Align a flange to the end of a pipe. | |
| 1, 2, 5 | 9. Align a 45-degree elbow to the end of a pipe | |
| 1, 2, 5 | 10. Align pipes joined by a coupling. | |
| 1, 2, 5 | 11. Install a valve. | |

Craft: Pipefitting

Module Number: 08207-06

Module Title: Butt Weld Pipe Fabrication



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Learning Series

TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

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 Standardized Craft Training Program, be sure to record Performance testing results on Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

Certified Plus Credential: Trainees who successfully complete these performance tasks may be eligible for a Certified Plus Credential. Refer to the Note on Performance Testing of this Performance Profile for eligibility requirements, or contact NCCER for more information.

| Objective | TASK | RATING |
|-----------|--|--------|
| 1 | 1. Identify various butt weld fittings. | |
| 2 | 2. Interpret a butt weld drawing. | |
| 3 | 3. Clean a beveled pipe end, using a portable grinder. | |
| 1, 4 | 4. Calculate pipe lengths from line drawings, using the center-to-center method. | |

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Craft: Pipefitting

Module Number: 08207-06

Module Title: Butt Weld Pipe Fabrication



| Objective | TASK | RATING |
|-----------|--|--------|
| 1, 4 | 5. Calculate pipe lengths from line drawings, using the center-to-face method. | |
| 1, 4 | 6. Calculate pipe lengths from line drawings, using the face-to-face method. | |
| 1, 3, 6 | 7. Align straight pipe. | |
| 1, 3, 6 | 8. Align a pipe to a 45-degree elbow. | |
| 1, 3, 6 | 9. Align a pipe to a 90-degree elbow. | |
| 1, 3, 6 | 10. Square a pipe into a 90-degree elbow. | |
| 1, 3, 6 | 11. Align a pipe to a flange. | |
| 1, 3, 6 | 12. Align a pipe to a tee. | |
| 1, 3, 6 | 13. Install a valve. | |

**Module 08208-06 has no Performance Profile Sheet;
no performance testing is required for this module.**

Craft: Pipefitting

Module Number: 08209-06

Module Title: Underground Pipe Installation



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

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 Standardized Craft Training Program, be sure to record Performance testing results on Craft Training Report Form 200, and submit the results to the Training Program Sponsor.

Certified Plus Credential: Trainees who successfully complete these performance tasks may be eligible for a Certified Plus Credential. Refer to the Note on Performance Testing of this Performance Profile for eligibility requirements, or contact NCCER for more information.

| Objective | TASK | RATING |
|-----------|-----------------------|--------|
| 7 | 1. Join CPVC and PVC. | |
| 8 | 2. Join ductile iron. | |