



Performance Verification Packet

INDUSTRIAL INSULATOR

This performance verification is designed as one method to evaluate job skills and safe work habits of a participant. The performance of the participant must be evaluated by an NCCER certified evaluator, at an NCCER authorized assessment site and be approved by an NCCER accredited assessment center.

Last Updated: March 2, 2004
NCCER
13614 Progress Blvd • Alachua, FL 32615
1-888-622-3720

NCCER PERFORMANCE VERIFICATION CANDIDATE SUMMARY
INDUSTRIAL INSULATOR

Objective

The candidate will demonstrate the ability to read blueprints, identify pipe characteristics, jacket and fabricate piping and boilers, install cold insulation, and cement fabric with mastic.

Scope

This Performance Verification provides a means to observe and evaluate competencies in the following areas:

- Blueprint reading
- Pipe specifications
- Layout and fabrication
- Jacketing for vessels and equipment
- Installing cold insulation
- Installing hot insulation
- Cement fabric with mastic

Materials Required

- Blueprint with pipe sizes and fittings identified
- 90°s, tees, valves, end cap, and various sections of pipe
- Insulating materials
- Cement
- Hand tools
- Boiler components (on Job site Boiler)
- Personal protective equipment
- J-clips, S-clips, screw, bands, and rivets

Time Required

7 hours

Tasks

- **Blueprint Reading**
 - Identify pipe size and fittings from blueprint
 - Identify dimensions for insulating materials
- **Pipe Specifications**
 - Identify pipe size, material, and fittings from samples provided by evaluator.
 - Layout and fabricate (fitting provided by evaluator)

NCCER PERFORMANCE VERIFICATION CANDIDATE SUMMARY
INDUSTRIAL INSULATOR

Tasks (cont'd)

- **Jacketing for Vessels and Equipment**
 - Layout, fabricate, and install to specifications provided by evaluator

- **Install Cold & Hot Insulation to specifications provided by evaluator**
 - Fill and seal voids
 - Install vapor barrier

- **Cement Fabric with Mastic**
 - Apply coating to specification

**NCCER PERFORMANCE EVALUATOR CHECKLIST
INDUSTRIAL INSULATOR**

Date Completed Task To Perform

- | | | |
|----------|----|--|
| __-__-__ | 1. | Blueprint Reading <ul style="list-style-type: none">• Identified pipe size• Identified fitting• Proper dimensions for insulating material |
| __-__-__ | 2. | Pipe Specifications <ul style="list-style-type: none">• Identified pipe insulation material• Identified fittings (90, Tee, valve, end cap) |
| __-__-__ | 3. | Layout and Fabricate <ul style="list-style-type: none">• Choose and use proper tools• Lay-out and fabricate to specifications, such as 90 or flange valve |
| __-__-__ | 4. | Jacketing for Vessels and Equipment <ul style="list-style-type: none">• Insulate/jacket stiffener rings• Expansion joints covered properly• Proper lay-out materials used• Lay-out and fabrication done to specifications• Installed proper flashing• Secured jacket with proper fasteners |
| __-__-__ | 5. | Install Cold Insulation & Jacketing <ul style="list-style-type: none">• Vapor barrier correct• All voids sealed• Expansion joints covered properly• Install support rings correctly• Seal with caulk• Followed specifications correctly |
| __-__-__ | 6. | Install Hot Insulation & Jacketing <ul style="list-style-type: none">• Seal all voids• Cover expansion joints correctly• Install support rings correctly• Seal with caulk• Followed specifications correctly |
| __-__-__ | 7. | Cement Fabric with Mastic <ul style="list-style-type: none">• Protected adjacent surfaces / floors• Entire surface covered evenly• Coatings applied to specifications |
| __-__-__ | 8. | Safety <ul style="list-style-type: none">• Used appropriate PPE at all times• Practiced good safety procedures |

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Performance Verification Form

How to fill out and file your information

Participant

- 1) Print your last name, first name, and social security number.
- 2) Print your company name, current employer, and the state where your employer's main office is located.
- 3) In the space provided for "Participant Signature," sign your name and enter the date you signed the form.

Performance Evaluator

- 1) In the space provided for "Site Code," enter the postal zip code of the location where the performance verification is being conducted.
- 2) In the column provided for "Date," enter the date the participant completed each of the tasks. This date is important because there may be times a participant does not complete a performance verification in one day.
- 3) In the space provided for "Performance Evaluator," sign your name.
- 4) In the space provided for "Date," next to your signature, list the date the participant successfully completed all of the tasks.

Administrator

- 1) In the space provided for "Administrator," sign your name. Your signature indicates that the performance evaluator is certified to conduct this performance verification and that it was conducted within the guidelines of the NCCER.
- 2) In the space provided for "Date," next to your signature, list the date that this performance verification form is being sent to the NCCER for entry into the National Registry.
- 3) In the space provided for "Accredited Assessment Center," print the name of the accredited assessment center that is conducting this performance verification.

Last Updated: June 8, 2011

NCCER

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PERFORMANCE VERIFICATION FORM
INDUSTRIAL INSULATOR PVINSUL19

Candidate information		
Last Name	First Name	SSN or SGN
Employer/Company Name	State	Code
Evaluator		
Last Name	First Name	SSN or SGN

	TASK NUMBER	SPECIFIC DUTIES/TASKS	DATE	START TIME	END TIME
	01	Blueprint Reading (Module 19309)			
	02	Pipe Specifications (Module 19105)			
	03	Layout and Fabricate (Module 19310)			
	04	Jacketing for Vessels and Equipment (Module 19311)			
	05	Install Cold Insulation and Jacketing (Modules 19303 and 19310)			
	06	Install Hot Insulation and Jacketing (Modules 19303 and 19310)			
	07	Cement and Fabric with Mastic (Module 19208)			
	08	Safety (Module 00101)			

Consent/Release: I, the undersigned, do hereby authorize the National Center for Construction Education and Research (NCCER) to release the information and results attained through the administration of the National Craft Assessment and Certification Program (NCACP) to the organization referenced below, and acknowledge that the employer noted above is my present employer.

ACCREDITED ASSESSMENT CENTER: _____

PARTICIPANT: _____ **SIGNATURE** _____ DATE: _____

PERFORMANCE EVALUATOR: _____ **SIGNATURE** _____ DATE: _____

ADMINISTRATOR: _____ **SIGNATURE** _____ DATE: _____

Last Updated: June 8, 2011
Return Completed Form To:
NCCER Registry •
13614 Progress Blvd • Alachua, FL 32615
1-888-622-3720