

Performance Verification Packet

Industrial Millwright

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.

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 Evluator

- 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.

NCCER Performance Verification Candidate Summary Industrial Millwright

Objective

The candidate will demonstrate the ability to remove, inspect, disassemble, rebuild, install and align a pump and record necessary information.

Scope

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

- Removing pump from casing
- Removing impeller back plate and seal
- Disassembly of bearing housing
- Installation of shafts and bearings into housing
- Installation of a pump into casing

Materials Required

- PPE
- Wrenches (combination)
- Rigging equipment (i.e., sling, shackles, hoist, etc.)
- Pullers
- Induction heater
- 250-degree temp-stick
- Various coupling types
- Emery cloth or Scotchbrite
- Flat file
- Various bearing types
- Allen wrenches
- Foundation and baseplates

- Machinist level
- Optical level
- Shims (hard pack and precision shims)
- Hand held mirror
- Dial indicators with chain or reverse alignment brackets
- Laser
- Brass punch
- Pump Installed in Casing
- Proper Measurement Tools
- Pump Specification Sheet
- Hand / Power Tools

Time Required

Based on Job Site specifications and equipment

Tasks

- Remove pump from casing
 - > Check condition
 - Check shaft and seal
- Remove impeller backplate and seal
 - Check shaft
 - Check seal

Disassemble bearing housing

- ➤ Inspect shaft
- > Check for proper fit
- Install shaft and bearings in housing
 - > Check for proper fit
 - Make sure all secondary seals, O-rings, etc., are in place
- Install pump in casing

NCCER Performance Verification Candidate Summary Industrial Millwright

Verify proper clearances

NCCER PERFORMANCE VERIFICATION EVALUATOR CHECKLIST INDUSTRIAL MILLWRIGHT

Date Completed	Task To Perform		
1.	Remove pump from casing • Checked impeller condition • Checked shaft and seal		
2.	Remove impeller backplate and seal Checked shaft run out Checked for seal failure Inspected back plate		
3.	 Disassemble bearing housing Inspected shaft Checked for proper fit 		
4.	 Install shaft and bearings into housing Checked and verified proper fit Made sure all secondary seals, O-rings, etc., are in place 		
5.	 Install pump in casing Verified impeller clearance Verified seal setting after impeller clearance Proper specifications were met during installation 		



PERFORMANCE VERIFICATION FORM

INDUSTRIAL MILLWRIGHT - MLWRT15 03 - CRAFT

Candidate	information					
Last Name		First Name	Social S	Social Security Number		
Employer/Company Name		State	Site Coo	Site Code		
Evaluator						
Last Name		First Name	Social S	Social Security Number		
Task Number	TASK		DATE (MM/DD/YY)	START TIME	END TIME	
01	Remove pump from casing (15404-0	8)				
02	Remove impeller backplate and seal					
03	Disassemble bearing housing (15306					
04	Install shaft and bearings in housing					
05	Install pump in casing (15405-08)					
Consent/Rele	ase: I, the undersigned, do hereby a Research (NCCER) to release the National Craft Assessment referenced below, and acknowless.	ne information and resul nt and Certification P	lts attained through throgram (NCACP) to	ne administrat the organia	ion of zation	
Accredited As	ssessment Center:					
Participant: _			Date:		<u> </u>	
Performance	Evaluator:		Date:			

Date:_____

Administrator:_____