



Authorized Instructor Examination

Powder Actuated Fastening Systems

(Please print legibly)

Name _____ Date _____
(first) (middle) (last)

Home Address _____
(street) (city) (state) (zip)

Company Name _____

Company Address _____
(street) (city) (state) (zip)

Social Security No. _____ Age _____ Birthdate _____ Company Phone _____

Instructor Classification

Two levels of instructor are available depending upon the employment status of an individual as shown in the following table. A **Factory Authorized Powder Actuated Tool Instructor** is approved to train and qualify both Authorized Powder Actuated Tool Instructors and operators for Powers Fasteners tools. An **Authorized Powder Actuated Tool Instructor** is approved to train and qualify operators only for Powers Fasteners tools. For complete details on these classifications, refer to the Powers Fasteners Powder Actuated Tool Instructor’s Training Manual.

Employment Status	Instructor Classification	
	Factory Authorized	Authorized
Powers Fasteners Employee	•	
Powers Fasteners Factory Representative	•	
Key Personnel at Powers Fasteners Distributor (usually one per location)	•	
Powers Fasteners Distributor Employee		•
Employee of an approved organization		•

Both levels of instructor may be tested using this exam. Only **Factory Authorized Powder Actuated Tool Instructors** having a current and valid factory instructors card are qualified to administer an Authorized Instructor Examination.

Draw a circle around the correct answer T for True, F for False, or write the letter(s) that correspond with the correct answer(s).

1. Operators may set fasteners into standard A 36 structural steel, but should never attempt to set fasteners into hardened alloy steel or cast iron materials. T F
2. The spall guard should not be used on Powers Fasteners tools when fastening directly into concrete or steel base materials. T F
3. The components of a Powers Fasteners powder actuated tool system are the load, the fastener, and the tool. T F
4. You can fasten into cracked or spalled areas of concrete. T F
5. All operators and helpers must wear safety goggles, hearing protection, and any other appropriate personal protective items that job conditions warrant while using powder actuated tools. T F
6. An instructor is responsible for assuring that an operator applicant can read and understand the materials and information presented in addition to demonstrating safe tool operation. T F
7. When fastening into masonry, the base material thickness must be at least 3 times the shank penetration. T F
8. It is not necessary, but recommended to have a prospective operator set some fasteners before a license is issued. T F

- 9. Overdriving fasteners into steel can cause the drive pin or threaded stud to break away and cause an injury. T F
- 10. The operator needs to have the tool perpendicular to the work surface before firing. T F
- 11. A test for color blindness is not necessary if the individual being licensed says they are not color blind. T F
- 12. Every powder tool operator must know, understand, and follow the misfire procedure, should one be encountered during tool use. T F
- 13. Which of the following are suitable base materials for Powers Fasteners powder actuated fasteners? _____
 - A. Natural Rock
 - B. Fireplace Brick
 - C. A 36 Structural Steel
 - D. 4000 PSI Concrete
- 14. Powder actuated tools can be used in flammable atmospheres. T F
- 15. All precautions ordinarily used around firearms should be observed when operating any powder actuated tool. T F
- 16. The primary reasons for the use of a plastic flute or guide on the Powers Fasteners are to provide position guidance for the fastener and to hold the fastener in the barrel of the tool. T F
- 17. Any base material not passing the center punch test is not suitable for powder actuated fasteners. T F
- 18. Any brand tool repair parts can be used to repair Powers Fasteners powder actuated tools. T F
- 19. Tightening a nut on a threaded stud creates a pulling or tension load on the stud which could weaken the fastening if overtightened. T F
- 20. Safety is the single most important objective of an operators license session. T F
- 21. The operator should never place their hand over the end of the muzzle of a Powers Fasteners tool to cock or to close the tool. T F
- 22. The powder loads used in Powers Fasteners tools are color coded to visually indicate power levels. T F
- 23. Per ANSI A10.3, a warning sign, "Warning, Powder Actuated Tool in Use" is required to be posted in plain sight while tools are being used. T F
- 24. An operator's card issued for a non-Powers Fasteners tool is also valid for Powers Fasteners tools. T F
- 25. Powers Fasteners powder actuated tools work best when well cleaned, lubricated with a good lubricant and wiped dry. Tools should be serviced every six months or more often if needed. T F
- 26. It is necessary for a prospective operator to understand the answers to the questions on the Operator's Examination. T F
- 27. Fasteners may be set as close as 1" to the edge of the concrete and 1/4" to the edge of steel base materials. T F
- 28. Fasteners used in Powers Fasteners powder actuated tools are common nails. T F
- 29. The mandatory loading sequence for all Powers Fasteners tools is, "Fastener First, Powder Load Last." T F
- 30. Test fastenings should always be made using the weakest load power level available for the tool. T F
- 31. Powder loads must never be pried out of a tool with sharp, pointed objects. T F
- 32. All of the following contribute to minimize "fishhooking" in masonry base materials: T F
 - A. The use of metal discs/washers
 - B. The use of a shorter shank length fastener
 - C. The use of a larger shank diameter fastener
- 33. One cause of inconsistent fastener penetration is failing to fully reset the piston prior to each fastening. T F
- 34. Powder loads should always be stored in a secured, cool, dry place. T F
- 35. The operator should remove the tool from the work surface and extract the power load immediately if the tool fails to fire. T F
- 36. The operator should never check the thickness and type of base material before attempting any fastening. T F

37. Select the factor that is least important when considering a powder actuated tool application. _____
- A. Ease of application
 - B. Bystander safety
 - C. Operator safety
 - D. In-place holding strength
38. Defective tools, parts, and/or accessories must be removed from service immediately. T F
39. The piston is returned to its correct firing position by either slinging the tool, cocking the tool by hand, or using a ramrod, depending upon the Powers Fasteners model being used. T F
40. Those daily steps that an operator must always perform prior to using a Powers Fasteners powder actuated tool are: _____
- A. Check to be sure the tool is in good mechanical condition.
 - B. Test fire the tool with the most powerful load and no fastener.
 - C. Check the tool's safety features to be sure they are working properly.
 - D. Check to be sure the tool is unloaded.
41. Powers Fasteners powder actuated tools cannot be used to successfully set fasteners into such materials as glazed brick, tile, and similar brittle materials. T F
42. Fastener penetration into average concrete should be approximately 2". T F
43. The Powers Fasteners Factory Authorized Instructor is the only person who can authorize other Powers Fasteners powder actuated tool instructors. T F
44. All current Powers Fasteners low velocity tools have the fasteners inserted head first into the barrel extension or muzzle bushing. T F

Test for Color Blindness

Write the name of the color below each box.



List the proper **POWDER LOAD LEVEL NUMBER** (1-6) next to each color listed.

Example: Gray 1

Red _____ Brown _____ Green _____ Yellow _____ Purple _____

I AM I AM NOT color deficient in my vision and have demonstrated my ability to distinguish the load powder levels used by Powers Fasteners according to color and power level number system.

Instructor Applicant Signature: _____



Authorized Instructor Examination

Powder Actuated Fastening Systems

I certify that I have received the recommended training for instructing individuals in the safe operation, use, maintenance, and servicing of the Powers Fasteners powder actuated tools listed below. I understand the importance of following all safety procedures and that failure to read, comprehend, and follow the detailed rules and warnings regarding the safe operation of powder actuated tools can result in serious injury or death to the tool operator or bystanders. I agree to conform to all the rules and regulations regarding the use of powder actuated tools. I understand that the card I receive is valid for three (3) years from the date of issuance but only if I remain employed by Powers Fasteners, an Authorized Powers Fasteners Distributor, or when in special issuance by Powers Fasteners. Prior to expiration of the card, I agree to make arrangements for the retraining necessary for issuance of a new card. I agree that failure to comply with any of the rules and regulations for the safe operation of powder actuated tools or in the training of individuals shall be sufficient cause for immediate revocation of my Powers Fasteners Powder Actuated Tool Instructor Card.

Instructor Applicant's Signature

Date of Training

This section is to be completed by the Factory Authorized Powder Actuated Tool Instructor performing the training for this applicant.

Instructor Training Checklist

- ___ A. Knowledge of Powers Fasteners powder actuated tool safety rules.
- ___ B. Practiced loading, test firing and extracting power loads and fasteners, including the proper test fasteners and handling of misfires.
- ___ C. Instructed on how to disassemble, repair, lubricate and clean the tool(s).
- ___ D. Instructed on the need for and the use of all available Powers Fasteners powder actuated tool accessories.
- ___ E. All test answers have been reviewed and all incorrect answers have been explained.
- ___ F. Received instructor literature package.

Powers Fasteners Literature Provided to Instructor Applicant

- | | |
|-----------------------------|------------------------------|
| ___ Model P2201 tool manual | ___ Model P3500 tool manual |
| ___ Model P7201 tool manual | ___ Model PA3500 tool manual |
| ___ Model P35s tool manual | ___ Model P3801 tool manual |
| | ___ Model PA351 tool manual |
| ___ Other _____ | |

I certify that _____ has received the recommended training for instructing individuals in the safe operation, use, and maintenance of the Powers Fasteners powder actuated tools listed below and has successfully passed the written and practical tests to qualify as an:

- 1. Authorized Powder Actuated Tool Instructor approved to train and qualify operators for Powers Fasteners tools.
- 2. Factory Authorized Powder Actuated Tool Instructor approved to train and qualify Authorized Powder Actuated Tool Instructors and operators.

The applicant is qualified for the following Powers Fasteners Tool Models: _____

Factory Authorized Instructor Signature

Date of Training

Factory Instructor Card Number

Card Expiration Date

Authorized Powder Actuated Tool Instructor Cards are issued by Powers Fasteners World Headquarters and are valid for 3 years from the date of issue. Upon conclusion of the Instructor Training Program, the Factory Authorized Instructor should forward the completely filled out Authorized Instructor Examination to:

Powers Fasteners PAT Instructor Qualification Center
Powers Fasteners, Inc.
2 Powers Square
New Rochelle, NY 10801

A card will be mailed directly to the applicant upon receipt of the completed examination.

Additional Authorized Powder Actuated Tool Instructor Training Kits may be ordered by calling the Powers Fasteners Customer Service Department at 1-800-524-3244. These kits are available to Factory Authorized Instructors Only.