

## **Certification Test**

*eLM.AFD.06 (Setting up PI on a Yaskawa VFD)*

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### **Taking the Certification Test**

Each question has **only one correct answer**. Please record all answers on this answer sheet. The order of the questions in the test roughly follows the order of topics covered in class. All questions are equally weighted. A passing score is 90%.

### **Returning the Certification Test**

**Option 1:** Fax the answer sheet (following page) to **Yaskawa Technical Training Services** at (847) 887-7185.

**Option 2:** E-mail the answers to all questions to [training@yaskawa.com](mailto:training@yaskawa.com). Be sure to include all of the contact information listed on the answer sheet.

**Option 3:** Mail the answer sheet to **Yaskawa Technical Training Services** at the address shown on the bottom of this page.

### **Receiving Your Score**

When the test is taken during the training class, you will receive your score in class as soon as it can be graded. When taken as a CLEP test, receive your score from Technical Training Services by sending an email to [training@yaskawa.com](mailto:training@yaskawa.com) or by calling Karen Kolacki at 847-887-7228. In either case, you may review your answers only if a passing score is received.

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## Answer Sheet:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

## Contact Information:

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Company: \_\_\_\_\_ Email: \_\_\_\_\_

Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Fax number: \_\_\_\_\_

Supervisor's Name/ Title: \_\_\_\_\_

Yaskawa Salesperson's Name  
(if Distributor) \_\_\_\_\_

Yaskawa Distributor  
(if End User) \_\_\_\_\_

Test Date: \_\_\_\_\_

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### QUESTIONS

1. A two-wire 4-20mA feedback transducer should be wired to which terminals?
  - a. V+, A2, and AC
  - b. V+ and AC
  - c. A2 and AC
  - d. V+ and A2
  
2. Which of the following is not a choice for PI feedback units on the Yaskawa Drive keypad display?
  - a. kW
  - b. PSI
  - c. GPM
  - d. Meters
  
3. Enabling PI Control on an E7 Drive with 3020 software or later will automatically set A2 as the feedback input.
  - a. True
  - b. False
  
4. The Sleep function will work to protect a pump from...?
  - a. Stopping
  - b. Running at a slow speed that may damage the pump
  - c. Over-speeding the system
  - d. Overflowing a tank
  
5. The A2 analog input cannot be configured for 0-10Vdc?
  - a. True.
  - b. False
  
6. The P & I in PI stand for?
  - a. Process and Instruction
  - b. Proprietary and Intelligence
  - c. Proportional and Integral
  - d. Proportional and Intermittent