

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**. 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** or by calling Karen Kolacki at 847-887-7228. In either case, you may review your answers only if a passing score is received.

Answer Sheet:

- | | | | |
|----------|-----------|-----------|-----------|
| 1. _____ | 6. _____ | 11. _____ | 16. _____ |
| 2. _____ | 7. _____ | 12. _____ | 17. _____ |
| 3. _____ | 8. _____ | 13. _____ | 18. _____ |
| 4. _____ | 9. _____ | 14. _____ | 19. _____ |
| 5. _____ | 10. _____ | 15. _____ | 20. _____ |

Contact Information:

Name: _____ Title: _____

Company: _____ Email: _____

Address: _____

Phone Number: _____ Fax number: _____

Supervisor's Name/ Title: _____

Test Date: _____

QUESTIONS

1. Encapsulation means what?
 - a. To organize common objects together
 - b. To call a subroutine via EtherNet/IP
 - c. To apply EtherNet/IP rules to Modbus messages
 - d. To put one protocol inside another

2. The CM092 kit will work with a V7 Drive
 - a. True
 - b. False

3. The EtherNet/IP master always controls the Drive's Run command.
 - a. True
 - b. False

4. The IP in EtherNet/IP stands for Industrial Protocol.
 - a. True
 - b. False

5. Which is a Yaskawa Vendor specific object?
 - a. TCP/IP Object.
 - b. AC Drive Object.
 - c. Auto-Tune Object.
 - d. Motor Object.

6. The Yaskawa part number UTC000068 is for what?
 - a. Option card ground wire
 - b. Replacement MAC ID sticker
 - c. Male to Female RJ-45 Cable
 - d. EtherNet/IP option card

7. Which one of the following is not a similarity between Modbus TCP/IP and EtherNet/IP networks?
 - a. Both can use 10Mb and 100Mb network speeds.
 - b. Both feature EDS configuration files for device configuration.
 - c. Both allow unlimited nodes.
 - d. Both allow multiple masters.

8. DeviceNet EDS files are not interchangeable with EtherNet/IP EDS files.
 - a. True
 - b. False

9. Special Cat5 cables are needed for EtherNet/IP installations.
 - a. True
 - b. False

10. A single EtherNet/IP EDS file will cover a range of Drive sizes?
 - a. True
 - b. False

11. The EtherNet/IP Interoperability Advisory Requirement proves what?
- a. Conformance with the ODVA's test requirements.
 - b. The deterministic nature of your product.
 - c. Interoperability with other vendors EtherNet/IP products.
 - d. Nothing.
12. The CM092 kit will support up to 2 simultaneous DriveWizard connections.
- a. True
 - b. False
13. Which connection types will the CM092 not support?
- a. Class 6F Unity connections.
 - b. Exclusive Owner Class 1 connections.
 - c. Point to Point Class 1 connections.
 - d. Class 3 connections.
14. A blinking RED MS LED indicates what?
- a. Minor Fault.
 - b. Major Fault.
 - c. The card is initializing.
 - d. One or more connections have timed out.
15. Which EDS file would be appropriate for an EtherNet/IP option card installed in a 460 Vac 7.5kW G7?
- a. G7U2011.UTC000068_V1_01.eds.
 - b. G7U27P5.UTC000068_V1_01.eds.
 - c. G7U47P5.UTC000068_V1_01.eds.
 - d. G7U47P5.UTC000052_V1_01.eds.
16. The CM092 currently meets the ODVA's VS Drive Profile requirements.
- a. True
 - b. False
17. The CM092 kits are available now.
- a. True
 - b. False
18. Resetting the Yaskawa EtherNet/IP card's IP address to default involves which of the following?
- a. Placing a jumper between C and /LD.
 - b. Setting dip switches.
 - c. Calling Yaskawa.
 - d. Removing the card from the Drive.

19. When using the EtherNet/IP master to set the Drive's speed command it will be necessary to set the following parameter in the Drive:
- Reference Source (b1-01).
 - Frequency Reference Display Units (o1-03).
 - Frequency Reference Resolution/Unit.
 - All of the above.
20. Which of the following is not an assembly available for the CM092?
- Basic Speed/Torque Control.
 - YE Standard Speed/Torque Status.
 - Extended Speed/Torque Status.
 - Extended Torque Only Control.