

Certification Test

CT.Sigma7 01.Webinar.CertificationTest



Student Name: _____

Company Name: _____

Address: _____

Phone: _____

Email: _____

Test Date: _____

Answers:

1	_____	26	_____	_____	_____
2	_____	27	_____	_____	_____
3	_____	28	_____	_____	_____
4	_____	29	_____	_____	_____
5	_____	30	_____	_____	_____
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Taking the Test

- The purpose of this test is to validate the learning experience corresponding to the applicable recorded webinars. It is recommended to preview the questions before viewing the webinar, and answer them as the video progresses. This test applies to the following recorded webinars.
 1. [eLV.Sigma7.01.ProductRelease](#)
 2. [eLV.MPiec.01.MWiecV330](#)
 3. [eLV.Sigma7.01.SuppProd](#)
 4. [eLV.Sigma7.01.SWp7 Webinar](#)
 5. [eLV.SigmaLogic.01.ver2Demo](#)
 6. [eLV.Sigma7.01.FT62 HSOOut](#)
- The test is open book. You may use any website, manuals, software, demo, etc. The test must be taken individually; you may not contact another person for help.
- Each question has only one correct answer unless otherwise noted. Please clearly record all answers on the answer sheet. All questions are equally weighted. A passing score is 90%.

Returning the Test

- Please return **only the first page** of the test (the answer sheet) with completed answers and contact information.

Option 1: e-mail a scan, photo, or edited pdf of the answer sheet with all answers and contact information to training@yaskawa.com.

Receiving Your Score

You may review your answers only if a passing score is received. You will receive a system-generated email with your score. Please allow up to 5 business days.

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Applicable Webinar: [eLV.Sigma7.01.ProductRelease](#)

1. What is the encoder resolution of a Sigma-7 motor?
 - A. 32-bit
 - B. 24-bit
 - C. 20-bit
 - D. 17-bit

2. What rotary motor families are available for Sigma-7 motors?
 - A. SGM7A
 - B. SGM7J
 - C. SGM7P
 - D. SGM7G
 - E. SGM7U
 - F. SGM7S
 - G. All of the above
 - H. Answer A, B, C, D
 - I. Answer A and B only

3. What are the first 5 characters of the part number for the dual axis Sigma-7 SERVOPACK?
 - A. SGD7W
 - B. SGDGW
 - C. SGD7D
 - D. SGDGD
 - E. SGD7S

4. Open the Sigma-7 Flyer at Yaskawa.com. What direct drive motors have the highest speed?
 - A. SGM7F
 - B. SGMCS
 - C. SGM7D

5. Open the Motion Brochure at Yaskawa.com. What is the maximum capacity of a 200V SGD7S SERVOPACK?
 - A. 50W
 - B. 500W
 - C. 200W
 - D. 750W
 - E. 1.5kW
 - F. 15kW

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Applicable Webinar: [eLV.MPiec.01.MWiecV330](#)

Note: Information relevant to Sigma-7 is covered at approximate video time 1:30 and again at 30:00.

6. Which SERVOPACK is physically smaller (same capacity)?
 - A. Sigma-7Siec
 - B. Sigma-7 with MP2600iec
7. Which product has the most digital IO?
 - A. Sigma-7Siec
 - B. Sigma-7 with MP2600iec
 - C. Both Sigma-7Siec and Sigma-7 with MP2600iec have the same IO
8. Which product has an external encoder input?
 - A. Sigma-7Siec
 - B. Sigma-7 with MP2600iec
 - C. Both Sigma-7Siec and Sigma-7 with MP2600iec
9. Which product supports electronic cam and electronic gear with a virtual axis master?
 - A. Sigma-7Siec
 - B. Sigma-7 with MP2600iec
 - C. Both Sigma-7Siec and Sigma-7 with MP2600iec

Applicable Webinar: [eLV.Sigma7.01.SuppProd](#)

10. Rockwell RSLogix™ software can interface which Yaskawa SERVOPACK using AOI provided by Yaskawa?
- A. SigmaLogic7 Compact
 - B. Sigma-7Siec
 - C. Sigma-7 with MP2600iec
 - D. All of the above
 - E. Answers B and C
11. What available gear ratio for Sigma-7 gear motors is closest to 29:1?
- A. 10:1
 - B. 20:1
 - C. 25:1
 - D. 30:1
 - E. 35:1
 - F. 50:1
12. Where does the cable exit on the Direct Drive Motor
- A. Front
 - B. Rear
 - C. Top
 - D. Bottom
 - E. Side
 - F. All of the above
 - G. B or E
 - H. D or E
13. What Sigma-7 SERVOPACK provides built-in indexing capability?
- A. FT19
 - B. FT62
 - C. FT79
14. What Sigma-7 SERVOPACK version provides extremely high tracking performance?
- A. FT19
 - B. FT62
 - C. FT79
15. Which series of Harmonic Drive AC Servo Actuator has been tested by Yaskawa with Sigma-7 SERVOPACKS?
- A. FHA
 - B. SHA
 - C. RSF

Applicable Webinar: [eLV.Sigma7.01.SWp7 Webinar](#)

16. What methods are available for connection of SigmaWin+ ver.7 software to a Sigma-7 SERVOPACK?
- A. Direct ETHERNET
 - B. EtherCAT
 - C. USB
 - D. MPiec Controller
 - E. All of the above
 - F. Answers A and B
 - G. Answers B, C, and D
17. A machine uses 5 (five) SERVOPACKs. How many SERVOPACKs on this machine can be simultaneously connected to SigmaWin+ ver.7?
- A. 1
 - B. 2
 - C. 3
 - D. 4
 - E. 5
18. SigmaWin+ ver.7 can be used for which of the following?
- A. Parameters
 - B. Monitors
 - C. Tuning
 - D. Ladder Logic Programming
 - E. Structured Text Programming
 - F. All of the above
 - G. Answers A, B, and C
19. SigmaWin+ ver.7 can be used to see the Alarm Trace of speed and torque before the alarm occurred on which SERVOPACK(s)?
- A. SGD7S (Sigma-7)
 - B. SGD7W (Sigma-7)
 - C. SGD7V (Sigma-5)
 - D. All of the above
 - E. Answers A and B

Applicable Webinar: [eLV.SigmaLogic.01.ver2Demo](#)

20. Which product(s) operate without an option card, with fewer IO points, and provide an Ethernet port that can be “daisy chained”?
- A. SigmaLogic7 Compact
 - B. SigmaLogic
 - C. All of the above
21. What software is required to configure a SigmaLogic7 Compact SERVOPACK?
- A. LogicWorks Version 1
 - B. LogicWorks Version 2
22. What task must be completed before installing LogicWorks Version 2?
- A. Install LogicWorks Version 1
 - B. Uninstall LogicWorks Version 1
 - C. Uninstall MotionWorks IEC
 - D. All of the above
23. Under what circumstances is it beneficial to use SigmaWin+ ver.7 with SigmaLogic?
- A. Motion Programming
 - B. Configuration of User Units
 - C. Servo Tuning
24. Which new AOI exists in the SigmaLogic Version 2 software package?
- A. MAHSP_Yaskawa
 - B. MCFG_Yaskawa
 - C. MAH_Yaskawa
 - D. MRSE_Yaskawa
25. Version 2 AOI can be used with which product(s)?
- A. SigmaLogic7 Compact
 - B. SigmaLogic
 - C. All of the above
26. If the SigmaLogic7 Compact (or SigmaLogic) embedded software is v2.0.0, what minimum version of AOI is required? (See www.yaskawa.com/sigmalogic)
- A. v3.3.0
 - B. v3.0.0
 - C. v2.0.0
 - D. v1.2.0
 - E. v1.1.0

Applicable Webinar: [eLV.Sigma7.01.FT62 HSOOut](#)

27. How many high-speed (1 μ s) line-driver output terminals are available on the Sigma-7 FT62?
- A. 1
 - B. 2
 - C. 3
 - D. 4
 - E. 5
28. How many normal-speed (1-2ms) optical output terminals are available on the Sigma-7 FT62?
- A. 1
 - B. 2
 - C. 3
 - D. 4
 - E. 5
29. High speed output /HSO1 will be used to trigger a camera for 3ms at encoder absolute position 1000. What output setting should be used to determine how the /HSO1 output off?
- A. Output Distance
 - B. Output Time
30. Which version(s) of SigmaWin+ can recognize the Sigma-7 FT62 SERVOPACK?
- A. SigmaWin+ ver.5
 - B. SigmaWin+ ver.7
31. What MotionWorks IEC function block is used to manage the high speed output features of the Sigma-7 FT62 servopack?
- A. Y_HSO_FT62
 - B. Y_DigitalCamSwitch
 - C. Y_WriteDriveParameter
 - D. MC_TouchProbe