

AVID LEARNING SERVICES

Certification Exam Study Guide



Avid Certified Support Representative ME400 Maestro | Engine System Support

Exam	Maestro Engine 400
Exam Code	ME400
Type of Exam	Multiple choice
Certification Level	Avid Certified Support Representative (ACSR)
Duration	60 minutes
Number of Questions	50 questions
Passing Score	80%
Exam Language	English

Target Audience

This certification exam is designed for technical support staff, technical managers, system integrators and others who need to install, maintain, or support the Maestro | Engine.

Exam Preparation

Successful candidates will have extensive experience with Maestro | Engine hardware and software. Although course attendance is not required to take the certification exam, Avid highly recommends candidates attend the course(s):

- [ME400 Maestro | Engine ACSR System Support Course \[not linked\]](#)

The ME400 System Support course will help candidates build the skills and competencies required for certification. During the class, participants will learn installation, configuration and troubleshooting techniques to minimize system downtime and maximize productivity, focusing on Maestro | Engine hardware.



Certification



The certification process provides a defined means by which individuals can prepare for the certification exam and, by extension, the role of Avid Maestro | Engine Support Representative. It is designed to ensure that candidates have sufficient knowledge of and experience with the Maestro | Engine series systems they will be supporting.

The following prerequisites are recommended:

1. [ME215 Maestro | Engine System Administration](#) or equivalent experience
2. [ME400 Maestro | Engine ACSR System Support course](#)
3. Experience with the Linux Operating System
4. Sufficient experience to possess an in-depth working knowledge of the concepts and procedures covered in the following documentation:
 - [Maestro Engine Documentation](#)

Completing the recommended course(s), coupled with hands-on experience will help you build the skills and competencies needed to pass the exam. You are not required, however, to complete the training courses prior to taking the certification exam. If you feel you have considerable, real-world experience implementing, installing, configuring, and troubleshooting Maestro | Engine series systems, then you may register and take the exam at any time.

Certification Exam Topics

The following topics are included in the certification exam. You should be well versed in the technical and operational details of each:

1. Introduction to Maestro | Engine
 - a. Different types of system (HD, 4K)
 - b. Supported video formats and capabilities
 - c. Supported genlock formats
 - d. Supported timecode formats and types
2. Common Workflow and Integration
 - a. Basic workflow
 - b. Workflow with 3rd parties
3. Required Environment and Setup
 - a. Possible environment elements
 - b. Specifying Common Details
 - c. Other Environment Requirements
4. Maestro | Engine Hardware
 - a. Inside Chassis
 - b. Front Panel
 - c. Rear Panel
5. Maestro | Engine Hardware installation
 - a. Basic assembling
 - b. Rack mounting
 - c. Wiring
 - d. BIOS setup
6. Centos installation and Configuration
 - a. Preparing Bootable USB
7. Maestro | Engine System Configuration
 - a. Configuring the Network
 - b. Installing kernel + libdvg
 - c. Modprobe update and configuration
 - d. Nvidia drivers Installation
 - e. Burning firmware and firmware types
 - f. Creating RAID
 - g. Mount Shared Data

8. Software installation and configuration
 - a. Render Engine installation
 - b. Maestro Engine Manager installation
 - c. HDVG Control panel
 - d. Configuring Single Chanel
 - e. Configuring Dual Chanel
 - f. Installing RE tools
 - g. HDVG monitor
9. Web Layout Configuration
 - a. Creating HD layout
 - b. Working with Maestro Layout
10. Audio Mixer

Practice Questions

The following questions are not part of the current ME400 exam but are similar to the questions likely to be asked.

- 1) In a Single-channel configuration, up to how many inputs can Maestro | Engine support per channel?
 - a. 2
 - b. 3
 - c. 4
 - d. 5
 - e. 6

- 2) What Operation system does Maestro | Engine 4K run
 - a. CentOS 7.4 with customized kernel
 - b. Customized Microsoft windows
 - c. Customized Unix
 - d. Customized mac OS X
 - e. Windows K gold

- 3) What authoring tool can be used by the design team to create design templates in basic workflow?
 - a. Maestro | Virtual Set
 - b. Maestro | Power Wall
 - c. Maestro | Designer
 - d. Maestro | News
 - e. Maestro | TX

- 4) The Maestro | Engine platform supports interaction by TUIO and _____ touch protocol.
 - a. Apple
 - b. Android
 - c. Maestro
 - d. Linux
 - e. Windows

- 5) Data integrity in Maestro | Engine are working in RAID _____?
 - a. 0
 - b. 10
 - c. 6
 - d. 60
 - e. 1

- 6) What is the minimum number of drivers for RAID 10 to operate on Maestro | Engine?
 - a. 2
 - b. 3
 - c. 4
 - d. 5
 - e. 6

- 7) In what other way can you install CentOS 7.4 on the server besides a bootable USB drive?
 - a. Over The Network
 - b. Using Floppy disk
 - c. Using an SDI cable
 - d. Over the Wi-Fi network
 - e. Using a Compact Disc

- 8) both Maestro | Engine and Maestro | Engine 4K support the NewTek NDI standard for video input and output.
 - a. True
 - b. False

- 9) Maestro | Engine and Maestro | Engine 4K Video references don't have Bi / Tri-level Sync.
 - a. True
 - b. False

- 10) What suffix should follow the IP address to enter the Maestro | Engine Web Settings through the web browser
 - a. 6080
 - b. 6060
 - c. 8008
 - d. 8080
 - e. 3060

- 11) In RE.XML file, what is the <Layout> element is for?
 - a. For the name of your layout configuration.
 - b. For the routing of layout configuration.
 - c. For the canvas size configuration.
 - d. For all sound configuration and routings.
 - e. For sound configuration.

- 12) Configuring the Maestro | Engine 4k render engine, what file need to be modified to support all required audio sources?
- Layouts.xml
 - RE.xml
 - AudioMixer.xml
 - AUX.xml
 - Sound.xml
- 13) What else need to be configured for NDI workflow in your environment after configuring both Linux and Windows Render Engines?
- Network
 - Maestro | Designer
 - Maestro | News
 - An NDI Switcher
 - A Share Data
- 14) Where do you set up a startup Layout?
- Domains drop down Maestro | Engine Layouts
 - Maestro Control Panel Layout section
 - Maestro Tools setup
 - layout section in Maestro | Engine Layouts
 - Settings Menu Maestro |Engine Layouts
- 15) By default, where would be the files extracted from the support tool?
- Avid/resources folder
 - Desktop
 - "Ressources" folder
 - Etc/RE folder
 - RE/bin folder**
- 16) Where is the HDVG monitor toll located at?
- Render Engine Tools lib folder
 - Render Engine Tools plugin folder
 - Render Engine Tools system folder
 - Support Tool DVG folder
 - Render Engine Tools bin folder
- 17) How many separate tracks are available for each input and output on the bottom panel Audio Mixer?
- 4
 - 6
 - 8
 - 12
 - 16

- 18) What is the purpose of the transition time on the Audio Mixer preset panel?
- a. Transition out effect
 - b. Latency in between presets
 - c. Transition in effect
 - d. Time the transition out
 - e. Time the transition in
- 19) Where can you find a summary of the system that contains the system Render Engine and DVG card information altogether?
- a. DVG folder
 - b. PROC folder
 - c. DVGinfo-10.10.19.7.tgz
 - d. SYSTEM folder
 - e. RE folder
- 20) Where the RE.XML file is located?
- a. /data/RE/bin/
 - b. /cd/data/RE/
 - c. /cd/usr/RE/bin/
 - d. /data/usr/bin/
 - e. /data/usr/orad/RE/

Answers to Practice Questions

Use the answers below to check your knowledge on the practice questions.

1. E: 4
2. A: CentOS 7.4 with customized kernel
3. C: Maestro | Designer
4. E: Windows
5. **B: 10**
6. C: 4
7. A: Over the Network
8. A: True
9. B: False
10. A: True
11. A: For the name of your layout configuration
12. C: AudioMixer.xml
13. B: Maestro | Designer
14. A: Domains drop down Maestro | Engine Layouts
15. C: "Resources" folder
16. B: Render Engine Tools bin folder
17. C: 8
18. B: Latency in between presets
19. C: DVGinfo-10.10.19.7.tgz
20. A: /data/RE/bin/