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1 Syllabus

This online course will provide the participant an opportunity to learn Casa Cable Modem Termination System (CMTS) C100 and C40G hardware and software with a focus on EdgeQAM implementations. This course is designed with an emphasis on verifying configurations, diagnostics and troubleshooting.

1.1.1 Audience

Who should participate?

This course is most appropriate for technical professionals who are not typically implementing configurations but rather are in support of the Casa CMTS/CCAP such as NOC and support engineers who need to understand how to verify, diagnose and troubleshoot the Casa CMTS after production deployments.

1.2 Topics

Chapter 1: C100G/C40G CCAP Video Hardware and Software Implementations

Given the written guide, at the end of this chapter the Course 2 participant should be able to:

- List the channel capacities of the 8x96 and 8x192 modules
- Describe the high-level architecture of the CCAP’s video processing
- Name the CLI modes
- Identify the interactive help features of the CLI
- Describe image management
- Explain user management implementations

Chapter 2: C100G/C40G CCAP Video Diagnostics and Troubleshooting

Given the written guide, at the end of this chapter the Course 2 participant should be able to:

- Describe one process for troubleshooting your Casa Systems devices
- Explain video configurations
- Identify basic errors in video configurations
- Recognize video sessions instances
- Describe initial troubleshooting of session absence
- Identify potential route issues for Video On Demand sessions
- Identify potential multicast issues for Switched Digital Video sessions
- List the types of information to gather in preparation for escalation
- Distinguish between packet capture methods