SCTE professional development
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GENERAL POSITION DESCRIPTION

This is a generic position description and job duties will vary and technology changes rapidly. We welcome your feedback at certification@scte.org.

Position Title: SCTE Digital Video Engineering Professional (DVEP) Certification

Position Summary

The **Digital Video Engineer** certifies knowledge in the engineering aspects of digital media (which includes video, audio, interactive services, and associated data) systems as deployed in the Cable Telecommunications Industry. The scope of this certification includes the design, analysis, testing, integration, deployment considerations and troubleshooting of a variety of digital media systems from headend to customer premises.

Position Duties

1. Architect digital media systems, including provisions for audio/video synchronization
2. Write technical requirements for digital media service delivery with proper attention to media quality.
3. Manage, design, and implement the digital media infrastructure and applications
4. Integrate with digital media provisioning and billing systems
5. Conduct stability, functional and performance testing of digital media sub-systems
6. Design and implement ongoing service verification systems ensuring media quality..
7. Integrate media delivery systems into a networking environment.
8. Develop test beds and test plans for product evaluation
9. Conduct testing, reporting results
10. Work with vendors to troubleshoot and improve products
11. Review design and processes to improve reliability, operating costs, and customer service
12. Review service and catastrophic failures and adjust design and operating procedures to prevent future occurrences
13. Initiate and manage internal and external escalation process

Qualifications / Knowledge of the following:

A. **Digital Multimedia Theory**
   1. Baseband Analog Media Theory
   2. Baseband Digital Media Theory
   3. Timing
   4. Compressed Media
   5. Metadata and Signaling
   6. Digital Media Systems
   7. Content Security
   8. Advanced Technologies
   9. Networking Principles

II. Digital Multimedia and Systems Standards

1. Understand the applicable MPEG standards by title and application.
2. Understand the applicable SMPTE standards by title and application.
3. Understand the applicable SCTE standards by title and application
4. Understand the applicable ATSC standards by title and application.
5. Understand the applicable DVB standards by title and application.
6. Understand the applicable ITU standards by title and application.
7. Understand the applicable CEA standards by title and application.
8. Understand the applicable AES Audio standards by title and application.
9. Understand the applicable CableLabs standards

III. Digital Media Systems Design and Integration

1. Linear System Considerations
2. On-Demand System Considerations

IV. Digital Media Systems Testing, Monitoring, and Performance Management

1. Effective testing practices
2. Effective monitoring practices
3. Fault Isolation and Troubleshooting
4. Common Artifacts
5. Performance Management

V. Digital Media Systems Deployment

1. Applying a design to a field site
2. Pre-deployment planning and preparation
3. Managing a deployment transition
4. Closing out a deployment program