CTS-D Prep

Test-Taking Strategies

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Math Strategies
The Exam Calculator
Ohm’s Law

Part One
The Audiovisual Design and Integration Process
ANSI/INFOCOMM 2M-2010 Standard
AV Design Phases
The Program Phase
The Design Phase
The Construction Phase

Coordinating with Allied Trades
Coordinating with Stakeholders
Tracking the Project
Acknowledging Industry Standards

Structural Mechanical Considerations
Codes and Access Issues
Mounting
Designing the Rack

Electrical Principles, Considerations, and Infrastructure
Interference and Noise Defense
Codes, Regulations, and Practical Applications

Elements of Acoustics
Production
Propagation
Interaction
Reception
Part Two

Display Environment
- Measuring Light
- System Black
- Contrast Ratio
- Predicting Projector Brightness
  - Activity: Calculating PISCR
- Task Light Levels
- Camera Lens Selection

Human Perception of Sound
- The Decibel
- Additional 10Log and 20Log Exercises
- Sound Pressure Level

Loudspeakers
- Loudspeakers Coverage Patterns
- Impedance
- Transformers
- Specify a Power Amplifier (EPR)

Microphones
- Microphone Mixing and Routing

PAG-NAG
- Audio System Quality
- PAG NAG
- PAG-NAG Summary

CTS-D Practice Exam 2
- Design Environment Review
- CTS-D Practice Exam 1
- Design Environment Review: Debrief
Part Three

Display Image Size
  Defining Display Image Size Terms
  Using Analytical and Basic Decision Making
  Using the Web App to Calculate Display Image Size
  Implementing Element Height and Text Size
  Calculating Analytical and Basic Decision Making
  Conforming to DiSCAS

Digital Signals
  Analog vs. Digital Signals
  Digital Signals

Digital Video
  Designing for EDID

Audio
  Setting up the System: Gain and DSP

Networking
  Networked Device Inventory
  Networking Components
  The OSI Model
  Network Connections
  Ethernet
  Internet Protocol (IP)
  Address Assignment
  Transport Protocol
  AV Data Link Protocols

Streaming
  Streaming and the Network Environment
  Unicast and Multicast

CTS-D Practice Exam 3
  Design Applied Review
  CTS-D Practice Exam 3
  Design Applied Review: Debrief