



## CTS-I Prep

### Test Taking Strategies

#### Test-Taking Strategies

- The CTS-I Exam
- Math Strategies

### Pre-Installation Activities

#### Planning

- Project Planning
- Jobsite Surveys
- Jobsite Safety
- Audiovisual Tools

#### AV Documentation

- Using a Scale
- Using Ratios
- Reading Architectural Drawings

#### CTS-I Practice Exam 1

- Pre-Installation Review
- CTS-I Practice Exam 1
- Pre-Installation Review: Next Steps

### AV Installation

#### Cable Essentials

- Cable Identification
- Connector Identification
- Cable Routes
- Cable Pull
- Conduit Capacity
- Cable Termination

#### Mounting

- Mounting Hardware
- Mounting Types
- Mounting Considerations



## **Rack Build**

- Rack Facts
- Building a Rack
- Wiring a Rack

## **AV Installation Review**

- AV Installation Review
- CTS-I Practice Exam 2
- AV Installation Review: Debrief

## **AV Verification**

### **Networking**

- Networked Device Inventory
- Networking Components
- The OSI Model
- Network Connections
- Ethernet
- AV Data Link Protocols
- Internet Protocol (IP)
- Address Assignment
- Transport Protocol
- The Host Layers
- Security Technologies
- Networking Tools

### **Control Systems**

- Introduction to Control
- Types of Control Systems
- Control System Installation
- Control System Verification

### **Audio Verification: Impedance**

- Impedance



## **Audio Verification: Setting Gain**

- Methods for System Gain
- Gain Equipment
- Setting Unity Gain
- System Optimization Method
- Setting Gain Structure with Audio DSP's
- Mixer Input Adjustments
- Microphone Input Adjustments
- Line Input Adjustments
- Power Amplifier Adjustments

## **Audio Verification: Equalization**

- Equalizers
- Measuring Loudspeaker Performance
- Testing Methods
- The RTA Method
- Using Dual-Channel FFT
- Finishing the Equalization Process

## **Video Verification**

- Video Signals
- Digital Video Signal Carriers
- Introduction to DisplayID/EDID
- EDID Troubleshooting
- Digital Rights Management
- HDCP Device Limits
- Lighting for Video Cameras
- Color Calibrations
- Audio/Video Sync

## **AV Verification Review**

- AV Verification Review
- CTS-I Practice Exam 3
- AV Verification Review: Debrief



# Conducting System Closeout

## Conducting System Closeout

- Site Clean-Up
- Closeout Documentation
- Troubleshooting
- Customer Training
- Maintain AV Systems

## Conducting System Closeout Review

- Conducting System Closeout Review
- CTS-I Practice Exam 4
- Conducting System Closeout Review: Debrief
- Study Contract Activity