

CEDIA EXAM PREP RESOURCES

This guide shows the various resources which are available year-round to prepare for the ESC-T certification exam, and is focused on online learning and CEDIA books. Where multiple options are available within a domain or task, specific topics are listed. Online courses with the “LES” extension the course code are “lessons” (shorter presentations with one or two learning objectives, often pulled from the larger, more comprehensive eCourses). Additional resources to enhance your learning are shown in the last section. In addition, CEDIA offers “Boot Camp” type training in Indianapolis, and hundreds of instructor-led classes each year at CEDIA expo and other training events. See these course listings at www.cedia.net/train/in-person-training.



KEY TO ABBREVIATIONS:

F-RES = [CEDIA FUNDAMENTALS OF RESIDENTIAL ELECTRONIC SYSTEMS](#), FOLLOWED BY /#, INDICATING CHAPTER NUMBER

A-RES = [CEDIA ADVANCED RESIDENTIAL ELECTRONIC SYSTEMS](#), FOLLOWED BY /#, INDICATING CHAPTER NUMBER

ESPA = ELECTRONIC SYSTEMS PROFESSIONAL ALLIANCE (US) OFFERS BASIC EST TRAINING VIA SCHOOL PROGRAMS, AND BOOKS

DOMAIN I: GENERAL TECHNICIAN ROLES & RESPONSIBILITIES

Task 1: Codes, Safety, Proper Use of Tools

General	F-RES/5 A-RES/8
Safety, codes, standards (US)	ESPA Training www.espa.org Basic EST Boot Camp
Asbestos & other threats	EST066 Monsters in the Attic: Unseen Threats of Retrofit Projects
Jobsite Safety	White Paper: Safety Tips & Regulations

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Task 2: Professionalism, Communication	
General	ESD162 Intro to Design Documents F-RES/1 Basic EST Boot Camp
Task 3: Project Plans and Documents	
General	ESD162 Intro to Design Documents F-RES/2 A-RES/15 Basic EST Boot Camp
Task 4: Math, Electricity, and Industry Terminology	
General	EST108B Basic Math and Terminology for Technicians F-RES/ALL A-RES/1 Basic EST Boot Camp
DOMAIN II: INFRASTRUCTURE	
Task 1: Pre-wire	
General	EST105B Cable and Connector Properties F-RES/6 A-RES/2 Basic EST Boot Camp TIA-570C NEC 2014 CEC 2015
Network cabling	EST233 Network Cabling Infrastructure F-RES/6 A-RES/2

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Cable schedules, drawings	ESD162 Intro to Design Documents F-RES/2 A-RES/15
Task 2: Trim-out	
General	F-RES/7 Basic EST Boot Camp CEA-2030
DOMAIN III: EQUIPMENT MOUNTING	
Task 1: Installation in Racks & Cabinets	
General	F-RES/8 A-RES/8 Home Theater Boot Camp CEA/CEDIA CEB-24
Task 2: Mounting Components (Cameras, Displays, Projectors, etc.)	
General	EST211 Video Display Technologies for Technicians F-RES/8 A-RES/8 Home Theater Boot Camp
Retrofit installation	EST308 Retrofit Installation A-RES/3
Task 3: Installing power management devices	
General	EST304 Power Quality and Conditioning F-RES/18 A-RES/8

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DOMAIN IV: AUDIO/VIDEO SYSTEMS

Task 1: Audio Equipment & Systems

General	EST225 Audio Technologies for Technicians F-RES/9 A-RES/4 Home Theater Boot Camp
Digital audio	EST225LES2 Digital Audio Signals
Home theater audio installation	ESD131 Fundamentals of Home Theater Design F-RES/12 A-RES/4 CEA/CEDIA CEB-22 Surround Sound Speaker Configuration
Distributed audio	ESD211 Fundamentals of Distributed Audio Systems F-RES/10 A-RES/4 CEA/CEDIA CEB-22
New distributed audio technologies	F-RES/10 A-RES/4
Surround system calibration	EST325 Audio Setup and Calibration EST325LES1 Audio Calibration EST326LES1 Audio Calibration Metrics A-RES/4
Equalization	EST320LES1 Graphic and Parametric EQ Discussion

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Task 2: Video Equipment & Systems	
General	EST211 Video Display Technologies for Technicians F-RES/11 A-RES/5 CEA/CEDIA CEB-23
HDMI	EST056LES1 HDMI Introduction
Video displays	EST211LES2 Video Display Technologies
UltraHD/4K	ESD0034 Understanding UltraHD/4K Technology
Video calibration	EST311LES1 Basic Video Calibration EST311LES2 Video Calibration Metrics
Home theater video installation	ESD131 Fundamentals of Home Theater Design F-RES/12 A-RES/5 Home Theater Boot Camp CEA/CEDIA CEB-23
DOMAIN V: COMMUNICATION SYSTEMS	
Task 1: Telephone Equipment & Systems	
General	EST105B Cable and Connector Properties F-RES/6 A-RES/13

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Task 2: Network Equipment & Systems	
General	EST233 Network Cabling Infrastructure F-RES/6,13 A-RES/2
Network configuration	EST243 IP for Technicians A-RES/10,11,12
Task 3: Security/CCTV Equipment & Systems	
General	EST270 Fundamentals of Residential Security Systems F-RES/17 A-RES/13
Security system fundamentals	EST270LES1 Security System Basics
Task 4: Antenna/Cable/Satellite TV Equipment & Systems	
General	EST105B Cable and Connector Properties F-RES/6
DOMAIN VI: INTEGRATED CONTROL SYSTEMS	
Task 1: Control System Devices & Protocols	
General	EST162 Intro to Control & User Interfaces F-RES/19, A-RES/7
Task 2: Lighting	
General	ESD041.B Lighting Design: The Finishing Touch on a Great Theater Project F-RES/14,19 A-RES/7,13

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DOMAIN VII: SYSTEM VERIFICATION & TESTING

Task 1: Verification of Compliance with Design

Final phase	F-RES/20
Design verification	ESD162 Design Documents F-RES/2

Task 2: Verification and Testing of System Performance

General	F-RES/20 A-RES/2 Basic EST Boot Camp
Troubleshooting	EST306 Troubleshooting, Repair and Preventive Maintenance A-RES/3

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YOU MAY WISH TO EXPLORE SOME TOPICS IN MORE DETAIL IN ORDER TO GAIN MORE ADVANCED KNOWLEDGE, OR PREPARE FOR ADDITIONAL CERTIFICATIONS. SHOWN HERE ARE SOME ADDITIONAL RESOURCES WHICH MIGHT INTEREST YOU.

The Design Process	ESD161 Design Thinking & Client Discovery
Design Documents	Webinar: The Future of Design Documents
Installation Checklist	Document: Residential Electronic Systems - Common Errors Checklist
Twisted Pair Specs	Document: UTP/STP Application Requirements
Communication Cabling Standards	Document: TIA570 Highlights Document: TIA/EIA568 A/B Wiring Charts for RH45 Document: TIA568C Copper Cabling Delimitations Document: EIA5908 Fiber Color Chart

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Calculation Amplifier Power	Document: How Much Amplifier Power is Needed?
Thermal Management in Racks	White Paper: Controlling the Temperature Inside Equipment Racks (Middle Atlantic Products)
Power Management in Racks	White Paper: Integrating Electronic Equipment and Power Into Rack Enclosures (Middle Atlantic Products)
Cable Management in Racks	White Paper: Cable Management (Middle Atlantic Products)
A/V Bridging	Webinar: Understanding Audio Video Bridging
Amplifier Specs	EST225LES1 Amplifier Specifications les
Calculating Screen Size	White Paper: Selecting Display Size Based on Room Size and Seating
Home Theater Room Construction	ESD232 Home Theater Room Design
3D TV	EST211LES1 3D Basics
Aspect Ratios	EST211LES3 Aspect Ratios
UHD/4K	White Paper: UHD/4K
HDBaseT and HDMI 2.0	Webinar: HDBaseT and UltraHD/4K HDMI 2.0: A Look Into the Standard
Hacking Into Home Systems	Webinar: Hacking Home Automation
Network Security	White Paper: Network Security Best Practices EST243LES1 Network Security
Near Field Communication	Webinar: Near Field Communication: Gateway to the Intuitive Home
HDMI 2.1 IN-DEPTH	White Paper: HDMI 2.1 In-Depth