



<u>Company</u>	<u>Course</u>	<u>CTS RUs</u>	<u>CTS-D RUs</u>	<u>CTS-I RUs</u>
Acoustics in a Box	Acoustics: How Much and Where?	0.5	0.5	0
Acoustics in a Box	Intelligibility in Architectural Spaces	1	1	0
Acoustics in a Box	Twenty Years of Acoustical Advancement	0.5	0.5	0
Almo Professional A/V	Interactive Collaboration System Design and Deployment	1	1	1
Almo Professional A/V	Understanding and Specifying Outdoor LFD with Samsung	1	1	1
Almo Professional AV	Present, Collaborate, and Control	0.5	0.5	0.5
American Music and Sound	D-Live Certification Course	2	2	2
Analog Way	Midra Operator Training Class	4.0	4.0	0.0
Analog Way	Designing AW for the Integrator	4.0	4.0	4.0
Analog Way	Live Core Certification Program- Advanced	12	12	0
Analog Way	Vertige Certification Program	9	9	0
Analog Way, Inc.	Designing Signal Flow for LED Displays	1.5	1.5	1.5
Analog Way, Inc.	LED Design Boot Camp	4	4	4
Analog Way, Inc.	Best Practices for Designing and Implementing Presentation Systems	1	1	0
Anixter, Inc.	Introduction to Professional Audio/Video Systems	1.5	1.5	0
AQAV	Quality Assurance Designer	24.0	24.0	24.0
AQAV	Quality Assurance Technician	24.0	24.0	24.0

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AQAV	An Introduction to the Competent Quality Leader” for Technology Managers and AV Corporate Leadership	3	3	3
Atlona	Successful Mixed Format Systems / Level 200 Atlona Certified Technologist	3.0	0.0	0.0
Atlona	Understanding AudioVideo Distribution Level 100 Atlona Technology Specialist	4.0	0.0	0.0
Atlona Technologies	AV over IP: Technical Training	0	2.5	2.5
Audinate	Dante Certification Level 2 - Intermediate Dante Concepts	2	2	0
Audinate	Dante Certification Level 1 - Introduction to Dante	2	0	0
Audinate, Inc.	Dante Certification Level 3 - Advanced Dante Networking	4.0	4.0	0.0
Audinate, Inc.	Dante Audio Networking Fundamentals	1	1	1
Audio Visual Resources, Inc.	Quality Assurance Technician	24.0	24.0	24.0
Aveo Systems	Installing and Using a Televic Conferencing System	4.0	4.0	4.0
Barco	Barco Certified Product Expert - UDX-series	3.5	0.0	0.0
Barco	Barco Certified Product Specialist - UDX & HDX 4K-series	10.5	0.0	0.0
Barco	ClickShare - Barco Certified Specialist	3.0	0.0	0.0
Belden, Inc	Category Cable Installation and Termination	1.0	1.0	1.0
Belden, Inc	HDBaseT Certification for Networking Contractors	4.0	4.0	4.0
Belden, Inc	A106 Digital Audio Choices and Considerations	1	0	0
Belden, Inc	P101 HDB: Best Practices for HDBaseT Infrastructure	4	4	4
Belden, Inc	4K Cabling Truths and Misconceptions for HDBaseT	2.0	2.0	2.0
Belden, Inc	HDBaseT System Design, Installation and Testing	0.50	0.50	0.50
Biamp Systems	Tesira SERVER/SERVER-IO	22.5	22.5	22.5
Biamp Systems	Tesira In Person Training	11.5	11.5	11.5
Biamp Systems	Vocia Online Certification Training	6.0	6.0	6.0

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Biamp Systems	HDR, HDCP 2.2 Pro and Resolution v. Distance - Key Concepts for Optimal Video System Design	0.5	0.5	0
Biamp Systems	TesiraLUX Online Certification Training	3	3	3
Biamp Systems	Audia Training for Technicians	2.0	0.0	0.0
Biamp Systems	Microphone Arrays and Beamforming Technology	0.5	0.5	0.5
<u>Bogen Communications, Inc.</u>	Performance Audio Technical Training	7.5	7.5	7.5
Bogen Communications, Inc.	Multicom 2000 and Quantum Technical Training	11.0	0.0	11.0
Bosch Security Systems, Inc.	Conferencing DCN	10	0	0
Bosch Security Systems, Inc.	Praesideo	12.5	12.5	12.5
Bosch Security Systems, Inc.	Telex Radio Dispatch	9	0	0
<u>Bose Corporation</u>	Distributed System Design with Bose Professional	0.5	0.5	0.5
<u>Brawn Consulting</u>	4K Resolution Demystified	1.0	1.0	1.0
Brawn Consulting	Digital Signage Certified Expert (DSCE)	8	8	8
Brawn Consulting LLC	Video over IP - Signal Management in AV Applications	1.0	1.0	1.0
Brawn Consulting LLC	The Fundamentals of Signal Management	1	1	1
Brawn Consulting LLC	The Viewer Experience; Proper Image Size	1	1	0
Brawn Consulting LLC	Advanced Display Technologies	2	2	2
Brawn Consulting, LLC	Screen Gain as a Design Tool	1.5	1.5	1.5
Brawn Consulting, LLC	Selecting a Projector by the Books	1.5	1.5	0
Brawn Consulting, LLC	Crossing The Chasm	1	1	1
Brawn Consulting, LLC	Interfacing with IT Staff for AV Integrators	1	1	1
Brawn Consulting, LLC	Introduction to Networks	1	1	1
Brawn Consulting, LLC	Project Management or Mangement	1	1	1
Brawn Consulting, LLC	Selling the Enterprise Customer	1.5	1.5	1.5
Brawn Consulting, LLC	The Value in a Value Proposition	1	1	1
Brawn Consulting, LLC	Time Management and Planning	1	1	1

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Brawn Consulting, LLC	Bring Content to Life in Canon Color & Clarity	1.0	1.0	1.0
BrightSign	Advanced BrightSign Techniques	0.75	0	0
BrightSign	BrightAuthor Basics	0.75	0	0
BrightSign	BrightSign 2-Day Technical Certification	8	0	8
BrightSign	Interactive & Control BrightAuthor Presentations	0.75	0	0
Bryan Pass	Management 670	10.0	0.0	0.0
Bryan Pass	Management 531	10.0	0.0	0.0
Bryan Pass	Management 641	10.0	0.0	0.0
C. L. Pugh & Associates, Inc.	Principles and Applications of Sound System Design	4.0	4.0	0.0
C2G/ Middle Atlantic Products	Understanding Digital Video Formats	1.0	1.0	1.0
Cables 2 Go	Integrating Mobile Devices with Fixed AV Assets (1 hour)	1.0	0.0	0.0
Cables 2 Go	Integrating Mobile Devices with Fixed AV Assets (2 hour)	2.0	0.0	0.0
Cables to Go	Understanding Digital AV Technology in the 21st Century Classroom	1	0	0
Cables to Go	Elements of Structured Connectivity for A/V Applications Explained	1	0	0
Chief	Chief ConnexSys Video Wall Mounting System	0.5	0.5	0.5
Chief	CHIEF FREESTANDING DISPLAY MOUNTS – INSTALLATION TRAINING	0.25	0.00	0.25
Chief	Chief Monitor Mounts – Installation & Optimization	0.25	0.00	0.25
Chief	Chief Multi-Display Fusion Mounting Solutions – Installation	0.25	0.00	0.25
Chief	Chief Projector Mounts & Accessories – Installation	0.75	0.75	0.75
Chief	Chief Single Flat Panel Mounting Solutions – Installation Training	0.25	0.00	0.25
Chief Manufacturing	Install Track – Digital Signage	0.5	0	0.5
Chief Manufacturing	Install Track – Digital Signage 2	0.5	0	0.5
Chief Manufacturing	Install Track- Education 2	0.5	0	0.5
Chief Manufacturing	Install Track – Education Vertical	0.5	0	0.5
Chief Manufacturing	Install Track - Elite Home Theater	0.5	0	0.5
Chief Manufacturing	Install Track – Hospitality Vertical	0.5	0	0.5

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Chief Manufacturing	Install Track – House of Worship Vertical	0.5	0	0.5
Chief Manufacturing	Install Track – Office Environments	1	0	1
Chief Manufacturing	Install Track – Residential Vertical	0.5	0	0.5
Chief Manufacturing	Install Track-Control Room	0.5	0	0.5
Chief Manufacturing	Install Track-Training Room	0.5	0	0.5
Chief Manufacturing	Install Track- Automated Classroom	0.5	0	0.5
Chief Manufacturing	Product Track- Automated Classroom	0.5	0	0
Chief Manufacturing	Product Track – Corporate Vertical	0.5	0.5	0
Chief Manufacturing	Product Track – Digital Signage Vertical	0.5	0	0
Chief Manufacturing	Product Track – Digital Signage 2	0.5	0.5	0
Chief Manufacturing	Product Track- Education 2	0.5	0.5	0
Chief Manufacturing	Product Track – Education Vertical	0.5	0.5	0
Chief Manufacturing	Product Track - Elite Home Theater	0.5	0	0
Chief Manufacturing	Product Track – Hospitality Vertical	0.5	0.5	0
Chief Manufacturing	Product Track – House of Worship Vertical	0.5	0.5	0
Chief Manufacturing	Product Track – Office Environments	1	1	0
Chief Manufacturing	Product Track – Residential Vertical	0.5	0.5	0
Chief Manufacturing	Product Track-Control Room	0.5	0	0
Chief Manufacturing	Product Track-Training Room	0.5	0	0
Chief Manufacturing (Milestone)	Install Track – Corporate Vertical	0.5	0	0.5
Christie Digital	Digital Cinema	22.5	22.5	22.5
Christie Digital	M Series and J Series	17.5	17.5	17.5
Christie Digital	4K	1.0	1.0	0.0
Christie Digital	ABCs of DLP	1.0	1.0	0.0
Christie Digital	Christie Phoenix(eLearning)	0.5	0.5	0.5
Christie Digital	Audio Fundamentals	1.0	1.0	0.0
Christie Digital	Digital Cinema Basics	0.5	0.5	0.0
Christie Digital	Digital Projector Anatomy	1.5	1.5	0.0
Christie Digital	M Series Advanced	9.0	9.0	9.0
Christie Digital	Networking	0.5	0.5	0.0
Christie Digital	Pandora's Box Basic Training	1.5	1.5	1.5
Christie Digital	Christie Phoenix (inClass)	7.0	7.0	7.0
Christie Digital	Video Wall Design	0.5	0.5	0.0
Christie Digital	Projection Technologies	1.0	1.0	0.0
Christie Digital	Resolution Basics	1.0	1.0	1.0
Christie Digital	Solaria 4K.	0.5	0.5	0.5
Christie Digital	Stereo 3D	0.5	0.5	0.0
Christie Digital	Dimensions of Image Processing and Application Trends	2	2	2

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Christie Digital	LED: A professional guide to selecting the right technology for your space	1	1	1
Christie Digital	Projection Illumination Technologies	1	1	1
Christie Digital	Projection Mapping Defined: The history, benefits, and future	1	1	1
Christie Digital Systems	Image Processing and Applications and Trends	2.0	2.0	2.0
Christie Digital Systems	LED A Professional Guide to Selecting The Right Technology for your Space	2.0	2.0	2.0
Christie Digital Systems	Projection Illumination Technologies	2.0	2.0	2.0
Christie Digital Systems	Projection Mapping: the Art of Pixelscaping Reality	2.0	2.0	2.0
Christie Digital Systems, Inc.	Digital Cinema	18.5	18.5	18.5
Christie Digital Systems, Inc.	M Series and J Series	10.5	10.5	10.5
Christie Digital Systems, Inc.	Christie D4K/ Roadie 4K	12.5	12.5	12.5
Christie Digital Systems, Inc.	Christie Spyder Training	7	7	7
Christie Digital Systems, Inc.	Phoenix Network Requirements	0.5	0.5	0.5
Christopher Maione and Associates	Engineering Lite AV Facilities Design	7	7	7
Christopher Maione Associates	Electrical Protection of AV & IT Equipment	2	2	2
Christopher Maione Associates	Electrical Protection of AV & IT Equipment	1.5	1.5	1.5
CLEAR-COM	Wireless Intercom	1.5	1.5	1.5
CLEAR-COM	Matrix Intercom Systems	9.5	9.5	9.5
CLEAR-COM	FreeSpeak II Basestation	0.5	0.5	0.5
ClearComm	LQ Series IP Interface	1	1	1
ClearOne	Pro Audio Technical Specialist	8.0	8.0	8.0
ClearOne Communications	Media Collaboration Technical Specialist	3	3	3
ClearOne® Communications	Network Media Streaming Technical Specialist	3	3	3
Contemporary Research	Digital RF and IPTV Convergence: Choosing the Right Solution	1.0	1.0	1.0
Control Concepts, Inc.	What to Know about Programmed vs Configured Control System Solutions	1.0	1.0	0.0

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Controlhaus Systems Design	S# Pro Essentials for AV Programmers	2.0	0.0	2.0
Crestron	Crestron: Audio Solutions	0.5	0.5	0.5
Crestron	Crestron: Creating the Huddle Room Experience	0.5	0.5	0.5
Crestron	Crestron: Integrating Streaming with Standard AV Switch Distribution	0.5	0.5	0.5
Crestron Electronics	DM Certified Designer-4K (DMC-D-4K)	4.0	4.0	4.0
Crestron Electronics	DM Certified - Engineer-4k (DMC-E-4k)	10.5	10.5	10.5
Crestron Electronics	DM Certified Technician - 4K	3.5	3.5	3.5
Crestron Electronics	Lighting Control Systems Programming	10.5	10.5	10.5
Crestron Electronics	Masters Training	12.0	12.0	12.0
Crestron Electronics	Crestron SIMPL# and SIMPL# Pro Certification	10.5	10.5	10.5
Crestron Electronics	Using Crestron Studio to Customize Systems for Residential Lifestyles	7.0	7.0	7.0
Crestron Electronics	How to Integrate and Maintain Crestron Systems	3.5	3.5	3.5
Crestron Electronics	Crestron Certified Audio Technician	3.5	3.5	3.5
Crestron Electronics	Avia Audio Solutions: DSP Integration within Today's Professional System Environment	3.5	3.5	3.5
Crestron Electronics	DigitalMedia: NVX Design and Networking	10.5	10.5	10.5
Crestron Electronics	DigitalMedia Certified Streaming (DMC-S)	3.5	3.5	3.5
Crestron Electronics, Inc	DM Engineering Training Tour	3.0	3.0	3.0
CTBO Ltd.	Installation Level 1	0	0	15
Danley Sound Labs	Intelligibility	5	5	0
Dataton Ab	WATCHOUT Certified User	6.0	6.0	6.0
Dataton Ab	WATCHOUT Overview	2.0	2.0	0.0
Digital Projection International	Value added solution strategies	0.5	0.5	0
Digital Projection International	7 Essential Factors for Projector Setup	2.0	2.0	2.0
Digital Projection International	Designing blend and warp applications for high-end DLP Projectors including 4K	2.0	2.0	2.0
Digital Projections	Factors to consider: LED Wall vs. Projection Solution	2.0	2.0	2.0

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Discover Video	Discover Video Reseller Certification Training Program	9	9	9
Draper, Inc.	Projection Screen Science Made Simple	1.0	1.0	1.0
Draper, Inc.	Projection Screen Science Made Simple	0.5	0.5	0.5
Draper, Inc.	Projection Screen Science Made Simple	1	1	1
Draper, Inc.	Present an Experience – Using Projection Properly	0.5	0.5	0.0
EPSON AMERICA, INC	The Importance of Image Sizing	0.50	0.50	0.50
EPSON AMERICA, INC	Epson Integration Certification 2017	3.00	3.00	3.00
EPSON AMERICA, INC	Color Light Output - A Projection Standard	0.75	0.75	0.75
EPSON AMERICA, INC	Color Gamut - 3D Modeling	1.00	1.00	1.00
EPSON AMERICA, INC	Brightlink Pro Certification Program	2.00	2.00	2.00
Evolve Academy	Panasonic Certified Projection Specialist	4	4	4
Extron	Configuring for Control	1.0	0.0	0.0
Extron® Electronics, Inc.	Infrastructure for 4K Systems and 8K Future	1.0	1.0	1.0
Extron Electronics	Videowall Systems Advanced Training	2.0	2.0	2.0
Extron Electronics	Digital Design Guide; 3rd Edition	2	2	0
Extron Electronics	4K Signal Processing Technologies	1.0	1.0	0.0
Extron Electronics	Designing Systems for 4K and Beyond	1.0	1.0	1.0
Extron Electronics	Extron DTP/XTP Twisted Pair Systems	1.0	1.0	0.0
Extron Electronics	XTP-T Online	1.5	0.0	0.0
Extron Electronics	School of Emerging Technologies 4K	8.0	8.0	8.0
Extron Electronics	SDI& HD-SDI Design Guide	2.0	2.0	0.0
Extron Electronics	XTP Systems Online	6.0	6.0	6.0
Extron Electronics	Videowall Systems Design Guide for Professional AV Systems (1 st Edition)	2	2	2
Extron Electronics	Extron ProDSP Specialist	7.0	7.0	7.0
Extron Electronics	School of XTP Systems Technician	8.00		8.00
Extron Electronics, Inc.	Control Systems Design Guide for Professional AV Systems - 2nd Edition	2.0	2.0	0.0
Extron Electronics, Inc.	Fiber Optic Systems Advanced Training	2.0	2.0	2.0
Extron Electronics, Inc.	AV Streaming Design Guide - 3rd Edition	2	2	0
Extron Electronics, Inc.	Fiber Optic Design Guide - 3rd Edition	2	2	0
Extron Electronics, Inc.	AV Streaming Technology Advanced Training	2.0	2.0	2.0
Extron Electronics, Inc.	AV Control System Strategies for Today and Tomorrow	1.0	1.0	1.0

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Extron Electronics, Inc.	Audio on the Network – Dante and VoIP	1.0	1.0	1.0
Extron® Electronics, Inc.	Are You Ready for AV Streaming and Recording?	1.0	1.0	0.0
Extron® Electronics, Inc.	Best Practices for AV Network Security	1.0	1.0	1.0
Extron® Electronics, Inc.	Conquering 4k Signal Processing Challenges	1.0	1.0	1.0
Extron® Electronics, Inc.	Videowall Systems Design Guide for Professional AV Systems (2 nd Edition)	2.0	2.0	2.0
Extron® Electronics, Inc.	Video Signal Processing Advanced Training	2.0	2.0	2.0
Extron® Electronics, Inc.	Extron Authorized Programmer	16	16	16
Extron® Electronics, Inc.	AV Associate Certification Program	10	10	0
Extron® Electronics, Inc.	School of Extron Control Professional	12	12	12
Extron® Electronics, Inc.	School of Extron Control Specialist-ECS	8	8	8
Extron® Electronics, Inc.	Guide to Graphical User Interface Design (Rev. B)	2	2	0
Extron® Electronics, Inc.	AV Technology Summit	8	8	0
Extron® Electronics, Inc.	ECS Online	4	4	0
Extron® Electronics, Inc.	AV System Design Summer 2012	2	2	2
Extron® Electronics, Inc.	XTP Systems Engineer	8	8	0
Extron® Electronics, Inc.	School of XTP Systems Technician	8.0	0.0	8.0
Extron® Electronics, Inc.	XTP-T Online	1.5	0.0	0.0
Extron® Electronics, Inc.	AV Systems Design, Summer 2015	2	2	2
Global Presence Alliance	Sales Track	18.5	0	0
Global Presence Alliance	Operations Track	18.5	0	0
grAVITation Technologies, LLC	The Art and Science of Da Vinci Sales - The 7 Keys to Selling Like Leonardo	2	2	2
HaiVision	HaiVision Media Platform - Video for Enterprise	1.0	1.0	0.0
Haivision	Digital Signage Content Strategies	1.0	1.0	0.0
Haivision	Enterprise Video Porject Design	1.0	1.0	0.0

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HaiVision	HaiSchool 3D	10	0	0
Harman	TS120: Technology Summit (Two Days)	8.0	8.0	8.0
Harman	ND232B: SVSI Designer: Networked AV Design for AV Professionals	4.0	4.0	4.0
Harman	NP132: SVSI Programmer 1: Introduction to Javascript Programming	8.0	8.0	8.0
Harman	NP134: Advanced Topics in Javascript for Panel Builder Software	4.0	4.0	4.0
Harman	Control Associate Programmer (ILC)	20	20	20
Harman	Networked AV Designer (ILC)	8	8	8
Harman	Networked AV Technician (ILC)	8	8	8
Harman	CC101:Core Curriculum Audio Essentials	1	1	1
Harman	C102: Core Curriculum Cabling Essentials	1	1	1
Harman	CC103: Core Curriculum Control Essentials	1	1	1
Harman	CC104: Core Curriculum Networking Essentials	1.5	1.5	1.5
Harman	CC105: Core Curriculum PC Essentials	1	1	1
Harman	CC106: Core Curriculum Video Essentials	1	1	1
Harman	AA 100 - HiQnet Audio Architect Introductory	7	7	7
Harman International	NP132: SVSI Programmer 1 Introduction to Javascript Programming	8	8	8
Harman International	NP134: Advanced Topics in Javascript for Panel Builder Software	4	4	4
Harman International	AMX Programmer 1 Introduction to NetLinx Programming (On Demand)	20	20	20
Harman International	AP132: Introduction to HiQnet Audio Architect (Intstructor Led)	7	7	7
Harman International	AP232: Audio Programming with BSS Soundweb London (Instructor Led)	8	8	8
Harman International	CD232: AMX Designer Control System Design for AV Professionals (Instructor Led)	4	4	0
Harman International	CI232: AMX Integrated Solutions for Control Programmers (Instructor Led)	12	12	12

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Harman International	CM132: AMX RMS Admin User Operations for RMS Enterprise (Instructor Led)	4	4	4
Harman International	CM232: AMX RMS Programmer NetLink Programming for RMS Enterprise (Instructor Led)	8	8	8
Harman International	CP232: AMX Programmer 2 NetLink Programming for AV Professionals (Instructor Led)	20	20	20
Harman International	CP301: AMX Cafe Duet Java Programming for AV Professionals (Instructor Led)	12	12	12
Harman International	CS132: AMX Xpert Signage User Operations for Xpert Signage (Instructor Led)	8	8	8
Harman International	CT 232: AMX Installer Control System Commissioning for AV Professionals (Instructor Led)	12	12	12
Harman International	CT234: Commissioning and Troubleshooting AMX Schoolview	4	4	4
Harman International	ND101: Networked AV Design Essentials	1	1	1
Harman International	ND102: Fundamentals of Networked AV	2	2	2
Harman International	TS105: Technology Summit (Half Day)	2	2	2
Harman International	TS110: Technology Summit (One Day)	4	4	4
Harman International	CP142 AMX Programming for AV Programmers	8	8	8
HD Base T Alliance	The HDBaseT Alliance	12	12	12
HDBaseT Alliance	The HDBaseT Online Installer Expert Program	1	1	1
Hikvision	Basic Networking for Installing and Sharing Recorders	2.0	2.0	2.0
Hikvision	Thermal Cameras - Concepts and Applications	2.0	2.0	2.0
Hikvision	Video Analytics within IP Cameras, NVRs, and VMS Software	2.0	2.0	2.0
Hikvision	Video Compression Best Practices for Surveillance Bandwidth and Storage Efficiency	2.0	2.0	2.0
Imaging Science Foundation	ISF Level II Video Certification Training	12.0	0.0	12.0
Key Digital Systems	C1 Certification	1.0	1.0	1.0

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Key Digital Systems	C2 Certification	1.0	1.0	1.0
Key Digital Systems	C3 Certification	2.5	2.5	2.5
Kramer	4K	1	1	1
Kramer	AV-IT Switch Setup	1.00	1.00	1.00
Kramer Electronics	Audio	1	1	1
Kramer Electronics	Collaboration	1	1	1
Kramer Electronics	Control Systems	1	1	1
Kramer Electronics	Digital Signage	1	1	1
Kramer Electronics	Digital Signal Management	1	1	1
Kramer Electronics	Distribution Amplifiers	1	1	1
Kramer Electronics	Installer Solutions	1	1	1
Kramer Electronics	Kramer @ Work	1	1	1
Kramer Electronics	KVM & KM	1	1	1
Kramer Electronics	Range Extenders	1	1	1
Kramer Electronics	Scalers	1	1	1
Kramer Electronics	Switchers & Routers	1	1	1
Kramer Electronics	Video Content Overlay	1	1	1
Kramer Electronics	Digital Signal Management	2	2	2
Kramer Electronics Canada, Ltd.	Designing Pro AV Systems with HDBaseT	2.0	2.0	2.0
Kramer Electronics Canada, Ltd.	Designing Pro AV Systems for 4K	3	3	3
Lencore	Sound Masking, Mass Notification, and Impact on Safety	0.5	0.0	0.0
Leyard and Planar, A Leyard Company	Video Wall Content Planning & Development	0.5	0.5	0.0

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Leyard and Planar, a Leyard Company	Leyard CarbonLight LED Display Certified Installer Training	3	0	3
Leyard and Planar, A Leyard Company	Leyard CarbonLight LED Display Certified Installer Training	3	0	3
Lightware	Behind the scenes of DVI, HDMI and DisplayPort	7	7	7
Lightware Visual Engineering	Behind the Scenes of HDMI and HDBaseT	2	2	2
Listen Technologies	Assistive Listening and ADA Compliance	1	1	1
Listen Technologies	Basic Hearing Loop Dealer (Level 1) Training & Qualification Webinar	1	1	1
Mackie - LOUD Technologies	Digital Mixing Master Class	1	1	1
Mackie – Loud Technologies Inc.	Digital Mixing Master Class	1.0	1.0	1.0
Media Vision USA	MVP-SYS102: TAIDEN 5300 Series Level 1	1	0	0
Mersive Technologies, Inc.	Solstice Training and Certification Program	1.0	1.0	1.0
Middle Atlantic Products	Designing Collaboration Spaces	1.0	0.0	0.0
Middle Atlantic Products	What You Need to Know about Energy Management in AV	1.0	0.0	0.0
Middle Atlantic Products	Unconventional Ways to Conceal Equipment	1.0	0.0	0.0
Middle Atlantic Products	Not Just a Pretty Rack	1.0	0.0	0.0
Middle Atlantic Products	Steps to Selecting a UPS	1	0	0
Middle Atlantic Products	Emerging Technologies that will Change the Future of AV	1.0	1.0	1.0
Middle Atlantic Products	USB in AV Applications	1.0	1.0	1.0
Middle Atlantic Products	USB Deep Dive Technology Exploration for AV Design and Integration	1.0	1.0	1.0
Middle Atlantic Products	Integrating Mobile Devices with into Fixed AV Assets	1.0	1.0	1.0
Milestone AV Technologies	Certification Program - Legacy Course	13	0	13
Milestone AV Technologies	Roadshow 2016-2017	1	1	1
Navigate Management Consulting	Next Generation of Leadership	32	32	32
NEC Display Solutions	How to Determine the Right Display Technology	1	1	1

<u>Company</u>	<u>Course</u>	<u>CTS RUs</u>	<u>CTS-D RUs</u>	<u>CTS-I RUs</u>
NEC Display Solutions	Laser/Phosphor Optical Systems	0.5	0.5	0.5
NEC Display Solutions of America, Inc.	NEC Installation Projectors	0.5	0.5	0.5
NEC Display Solutions of America, Inc.	The Ins and Outs of Projector Edge Blending Technology	1.0	1.0	1.0
NEC Displays of America	Color Management for Displays	2.0	2.0	2.0
NSCA	2017 NSCA Business & Leadership Conference	11.5	0.0	0.0
NSCA	Business and Leadership Conference 2016	11.5	0	0
Optoma	Understanding the Benefits of 4k Projections	0.5	0.5	0.0
Panasonic Marketing Europe	Projector: Visual Expert	3.0	0.0	0.0
Panasonic Marketing Europe	Projector: Visual Advanced Expert	3.0	0.0	0.0
Panasonic Marketing Europe	Display: Visual Advanced Expert	3.0	0.0	0.0
Panasonic Media Entertainment Company	Stream Forward The Ins & Outs of Remote Live Production	1.5	1.5	0.0
Peavey	MediaMatrix Designer Bootcamp	5.5	5.5	5.5
Peavey Electronics	MediaMatrix 2 Day Training Course : Level I	7.5	7.5	7.5
Peavey Electronics	MediaMatrix and Nware Concepts	2	2	2
Peerless A/V	Getting to Know the Basis - Peerless-AV Bronze Level Certification	1	1	0
Peerless AV	Fundamentals of Digital Signage Solutions- Peerless-AV Silver Level Certification	1	1	1
Peerless AV	Advanced Digital Signage Solutions Peerless-AV Gold Level Certification	1	1	1
Peerless AV	Mastering Wireless & Outdoor AV Solutions Peerless-AV Platinum Level Certification	1	1	1
Peerless AV	Frustration-Free Content Streaming	0.5	0.5	0.5
Peerless AV	Fundamentals of Digital Signage Solutions- Peerless-AV Silver Level Certification	1	1	1
Peerless AV	Advanced Digital Signage Solutions Peerless-AV Gold Level Certification	1	1	1

<u>Company</u>	<u>Course</u>	<u>CTS RUs</u>	<u>CTS-D RUs</u>	<u>CTS-I RUs</u>
Peerless AV	Mastering Wireless & Outdoor AV Solutions Peerless-AV Platinum Level Certification	1	1	1
Peerless-AV	InfoComm: What We Saw	0.5	0.5	0.5
Peerless-AV	The 7 Principles of LED Displays.	0.5	0.5	0.5
Persistent Telecom	Cellular Telephone Technology	2	2	0
Planar	Planar DirectLight LED Video Wall Certified Installer Training	4	0	4
Planar, A Leyard Company	Fundamentals of Fine Pitch Direct View LED Display Technology	1	1	0
Planar, a Leyard Company	Clarity Matrix LCD Video Wall System Certified Installer Training	3	0	3
Planar, a Leyard Company	Planar Mosaic Video Wall Certified Installer Training	2.5	0	2.5
Planar, a Leyard Company and Leyard	Clarity VCS Video Wall Processor Certified Installer Training	4	0	4
Polycom[®], Inc.	In-Depth Technical Training on Polycom HDX Codecs	0.5	0.5	0.5
Polycom[®], Inc.	Integrator Conferencing Solutions	0.5	0.5	0.5
Polycom[®], Inc.	SoundStructure Technical Training	10.0	10.0	10.0
Powersoft Audio	INTRODUCTION TO CLASS D	1.5	1.5	1.5
Prolyte Group/AC Lighting Inc.	Truss Revealed: Technical Truss Training by Prolyte Group	3.0	3.0	3.0
PSNI	SuperSummit'17	16	16	16
PSNI	The Use of the A-3 Management Process for Problem Solving"	6	6	6
Purelink	MPX Complete Digital Signage Solutions: Content and Player Management Software Training	1.0	1.0	1.0
Purelink	VIP and VPX : Comprehensive Solutions for AV and KVM over IP	1.0	1.0	1.0
QSC	Q-Sys Level One In-Classroom Training	4	4	4
QSC Audio Products, LLC	Q-Sys Training Level 1 (Online)	4	4	4
QSC Audio Products, LLC	Q-Sys Training Level 2 (Classroom)	8	8	8
QSC Systems	Global AV Standards: How to go about it?	1.5	1.5	1.5
QSC Systems	Leveraging AV Technology via AV-USB Bridging to Enhance the Educational Experience in Classrooms.	4	4	4
Rational Acoustics LLC	Smaart Operator Fundamentals	9.5	9.5	9.5

<u>Company</u>	<u>Course</u>	<u>CTS RUs</u>	<u>CTS-D RUs</u>	<u>CTS-I RUs</u>
RAVE A/V	4K is Literally 2020: The Perfect Storm of Resolution and Colorimetry	1.5	0.0	0.0
Rave A/V	Encouraging Interaction in the World of 'Me': Using Interactive LDC Displays	1	1	0
rAve Publications	4K: No Myths, No Exaggerations – Just the Facts	1.5	0	0
rAve Publications	The Only Unbiased Explanation of How AV-over-IP Works	1.00		
Revolabs, Inc.	Next Generation AV Network Fundamentals and Design	3.0	3.0	3.0
RGB Spectrum	RGB 301: Galileo Installation and Configuration	4.0	4.0	4.0
RGB Spectrum	RGB 301: MediaWall V Installation and Configuration	4.0	4.0	4.0
RGB Spectrum	RGB 301:Zio Installation and Configuration	4.0	4.0	4.0
RGB Spectrum	CIP 201: Design Engineering	2.0	2.0	2.0
RGB Spectrum	RGB 101: Product Sales Orientation	1.0	1.0	1.0
RGB Spectrum	Networked AV Core Concepts	4.0	4.0	4.0
RGB Spectrum	Zio-101: Product Orientation	2.0	2.0	2.0
RGB Spectrum	Zio-201: Design Engineering	2.0	2.0	2.0
RH Consulting (trading name of Avitas Global Ltd)	AV Audio Academy - Audio Foundations	16.0	16.0	16.0
RH Consulting (trading name of Avitas Global Ltd)	AV Audio Academy - Audio for Education	8.0	8.0	8.0
RH Consulting (trading name of Avitas Global Ltd)	AV Audio Academy - Audio for Corporate Applications	8.0	8.0	8.0
RH Consulting (trading name of Avitas Global Ltd)	AV Audio Academy - High Performance Audio	8.0	8.0	8.0
ROAM Consulting LLC	Going Big: The Power of Projection Mapping	1.0	1.0	0.0
ROAM Consulting LLC	The Future is Now: Choosing The Right Digital Signage Solution	1.0	1.0	1.0
rp Visual Solutions	The Art of Screens	1.5	0	0
rp Visual Solutions	Visualization - Focus on Control Rooms and Immersive Applications	2	0	0
rp Visual Solutions	LED: To Mount, or Not to Mount?	2	0	2
rp Visuals	Art of Screens	0.5	0	0
Salient Systems	Seeing Tomorrow Today	1.0	1.0	0.0
Samsung	Samsung Display Sales Expert Certification		2.25	

<u>Company</u>	<u>Course</u>	<u>CTS RUs</u>	<u>CTS-D RUs</u>	<u>CTS-I RUs</u>
Samsung Electronics America	Samsung Certification Tier 1: IT Sales Specialist	1.5	1.5	0.0
Samsung Electronics America, Inc.	Specifying Outdoor Commercial Display Solutions	1	1	1
Screen Innovations	Ambient Light Rejection Screens - The Perfect Screens for an Imperfect World	1.5	1.5	1.5
Shure	Shure Microflex Advance Technical Training	0.5	0.5	0.5
Shure Asia Limited	Wired Microphone Technologies	1.5	1.5	1.5
Shure Asia Limited	Introduction to Analog and Digital Wireless System Technologies	3.0	3.0	3.0
Shure Asia Limited	Advanced Digital Wireless System Technologies	1.5	1.5	1.5
Shure Distribution UK	Wireless Mastered: Installed	5.5	5.5	0.0
Shure Incorporated	Microflex Advance Installation and Best Practices	0.5	0.5	0.5
Shure Incorporated	Microflex Wireless: Beyond the Basics	0.5	0.5	0.5
Shure Incorporated	How to Install Shure Microflex Wireless	0.5	0.5	0.5
Shure® Inc.	Advanced Wireless Seminar	5	5	5
SpinetiX	Single Screen by DiVA - Getting Started with Digital Signage	1.0	0.0	0.0
SpinetiX	Single Site by Elementi S - Simplifying Content Creation	2.0	0.0	0.0
Stampede Presentation Products	Drone Operations in the US and Current FAA Regulations (Part 107)	1.0	0.0	0.0
Starin	Facilitating the Enterprise Network for AV over IP Solutions	4.0	0.0	0.0
Starin	Synergy Leading with Value Propositions	2.0	2.0	2.0
Starin	Synergy Installations	20.0	20.0	20.0
Starin	Implications of IP Paging & Notification Systems	2.0	2.0	2.0
Starin	Synergy Fundamentals	20.0	20.0	20.0
Starin	Synergy Design	20.0	20.0	20.0
Starin	Demystifying AV/IT Networks	2.0	2.0	2.0
Symetrix, Inc.	Symetrix Specialization – Automixing Applications	1	1	1
Symetrix, Inc.	Symetrix Specialization – Control Programming Applications	1	1	1
Symetrix, Inc.	Symetrix Specialization – Loudspeaker Management Applications	1	1	1
Symetrix, Inc.	Symetrix Specialization – Priority Zone Mixing Applications	1	1	1

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Symetrix, Inc.	Symetrix Specialization – Room Combining Applications	1	1	1
Symetrix, Inc.	Symetrix Specialization – Routing and Distribution Applications	1	1	1
Symetrix, Inc.	Symetrix Specialization – VoIP and Conferencing Applications	1	1	1
Symetrix, Inc.	SymNet Composer Online Training	4	4	4
Syn Aud Con	Emergency Communication Systems (ECS) - Deployment	16	16	16
Syn Aud Con	Emergency Communication Systems (ECS) - Design	16	16	16
Synergetic Audio Concepts	Digital Signal Processing (Course 120)	12.0	12.0	12.0
Synergetic Audio Concepts	Making Wireless Work	18	0	18
Synergetic Audio Concepts	Sound Reinforcement for Technicians	16	16	16
Synergetic Audio Concepts, Inc.	Sound Reinforcement for Designers	20	20	20
Systems Contractor News	SCN Think Tank	5.5	5.5	5.5
The Light Brigade	Fiber Optics for Pro-AV and Broadcast	32.0	32.0	32.0
Thinklogical L.L.C	Design and Manage a KVM switching system	4	4	4
Tripp Lite	Digital Signage Solutions	2.0	2.0	2.0
Tripp Lite	Rack Systems	0.0	0.0	2.0
Tripp Lite	How to Select a UPS System	2.00	2.00	2.00
Tripp Lite	How to Select a PDU	2.00	2.00	2.00
Tripp Lite	KVM Switches	0.00	2.00	2.00
Tripp Lite	Switched PDUs	2.00	2.00	2.00
Tripp-Lite	Digital Signage Solutions	2.0	2.0	2.0
Tripp-Lite	How to Select a PDU	2.0	2.0	2.0
Tripp-Lite	How to Select a Ups System	2.0	2.0	2.0
Tripp-Lite	KVM Switches	0.0	2.0	2.0
Tripp-Lite	Rack Systems	0.0	0.0	2.0
Tripp-Lite	Switched PDUs (Technical Course)	2.0	2.0	2.0
TV One	CORIO Creative Video Wall Design	1.5	0.0	1.5
TV One	CORIO Video Scaling Technology	1.5	0.0	1.5

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TV One	HDBaseT Extension	1.0	1.0	1.0
TV One	tvONE Introduction	1.5	0.0	0.0
TV One	UTP & Fibre Extension and Switching	1.5	1.5	1.5
tvONE	Creative Video Wall Designs	1	1	1
tvONE	OLED The Curve of the Future	1	1	1
Utology	UTC-1 Certified Technician, Level 1	10	10	10
Utology Corporation	Solutions Selling to the Enterprise: Winning Big Deals with Big Margins	8	0	0
Utology Corporation	UTC-1 Certified Technician, Level 1	18	18	18
Vaddio	Live Production and Cloud Convergence	0.5	0.0	0.0
Vaddio	Unified Communications - The Digital Disruption	0.5	0.0	0.0
Vaddio	Virtualization Classrooms across a Campus	0.5	0.5	0.0
Vaddio	RoboTRAK Certification	0.5	0.5	0.5
Visual Displays Ltd	InfoComm MasterClass: DISCAS: ANSI/InfoComm Standard on display image size, viewer locations and relative content size	1.0	1.0	1.0
VITEC, Inc.	Point to Point Streaming Design Essentials for Single and Multi-Site Environments	1.5	1.5	1.5
Williams Sound	Williams Sound - Induction Loop Advanced Class - 8 hour - 1 Day Class	8	8	8
Wolfvision	Cynap Sales - Network Basics AV/IT 101 3 Day	12.0	12.0	12.0
WolfVision	4K and Ultra High Definition Technologies and Applications	1	1	1

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WolfVision	Intro to IT Security for AV Professionals	1	1	1
WolfVision	Software and Cloud Solutions Impact on AV- What Lync and Jabber Offer to the AV World	1	1	1
WolfVision	Touchscreen Technology Advancements	1	1	1
Wolfvision	Wolfvision Module 1- Visualizer and Cynap Introduction	1	1	1
Wolfvision, Inc.	Collaborations and Presentations in Media Rich BYOD Environments	2.0	2.0	2.0
Wolfvision, Inc.	Cynap Sales Certification Module 2	2.0	2.0	2.0
Wolfvision, Inc.	Cynap Certified Sales Module 3	2.0	2.0	2.0
Wolfvision, Inc.	Dispelling Top 10 Networked AV Myths	2.0	2.0	2.0
Wolfvision, Inc.	Top 10 Ways to Use AV/IT as Your Collaboration Catalyst	1.0	1.0	1.0
<u>Yamaha Commercial Audio Systems, Inc.</u>	Yamaha CIS Series - Advanced CIS Design	3.0	3.0	3.0
Yamaha Commercial Audio Systems, Inc.	Yamaha CIS Series - MTX/MRX Editor Software	1.0	1.0	1.0
Yamaha Commercial Audio Systems, Inc.	Yamaha CIS Series - Provisionaire Touch Software	1.0	1.0	1.0
Yamaha Corporation of America - Pro Audio Division	CL/QL Series Essentials	3	3	3
Yamaha Corporation of America - Pro Audio Division	Digital Sound Reinforcement - Dante	3	3	3
Yamaha Corporation of America - Professional Audio Division	Acoustic Enhancement Systems and AFC Design Guidelines	1	1	0

<u>Company</u>	<u>Course</u>	<u>CTS RUs</u>	<u>CTS-D RUs</u>	<u>CTS-I RUs</u>
Yamaha Corporation of America - Professional Audio Division	Dante Networking	1	1	1
Yamaha Corporation of America - Professional Audio Division	Nexo Products and Design Softwar for Performance Audio Systems	1	1	0
Yamaha Corporation of America - Professional Audio Division	Yamaha Consoles and Networks	1	1	0
Yamaha Corporation of America - Professional Audio Division	Yamaha Products and Software for Commercial Audio Systems	1	1	0
ZeeVee Inc.	Zyper AV over IP	2.5	0.0	2.5
ZeeVee, Inc.	SD & HD Digital Video Distribution Using RF Modulation and IP	1	1	0