Christie University

Course catalog

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eLearning courses

Compliance & Safety

Course name	Objectives	Notes
Cinema Projector Maintenance (Series I/ II) **Available in English & Spanish**	• Identify how to change a cinema projector lamp • Maintain the filters and cooling system in cinema projectors	40 minutes
Electrostatic Discharge (ESD) **Available in English, Spanish & Simplified Chinese**	• Discuss ESD control for electronics assembly • Identify the types of ESD device damage • Identify safety and compliance issues	45 minutes
Laser Safety Awareness **Available in English, Spanish & Simplified Chinese**	• Describe and articulate the importance of laser safety • Summarize control requirements • State the protective measure at Christie • Explain general laser safety guidelines	25 minutes
Photon LOS Alignment Booth Safety (webEx)	• Laser safety practices in the Photon Booth (Best viewed using Chrome or Firefox)	15 minutes
Projector & Lamp Safety **Available in English, Spanish & Simplified Chinese**	• Avoid electrocution hazards • Observe Electrostatic Discharge (ESD) safety precautions • Prevent lamp explosions • Locate safety interlock switches • Identify and apply other safety precautions	45 minutes

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Products

Course name	Objectives	Notes
APS & DS Product Training	• Articulate the features and differences between the APS and DS series • Understand the capabilities and system requirements • Confidently set up a system • Become familiar with the User Interfaces	10 minutes
AutoStack 2.0	AutoStack™ 2.0 New (Advanced) Setup eLearning: • Run AutoStack 2.0 and perform a flat screen calibration using the New (Advanced) setup menu • Describe AutoStack and the tools and functions within the application AutoStack 2.0 Guided Setup: • Run AutoStack™ 2.0 and perform a flat screen calibration using the Guided Setup menu • Describe the tools and functions within AutoStack 2.0	15 minutes
Boxer Fundamentals *Available in English, Simplified Chinese, French, German, Italian, Russian, Spanish*	• Describe Boxer • Articulate the projector specifications • Identify the elements that make up Boxer • Describe TruLife™ Electronics • Identify Input Options	30 minutes
Brio	• Articulate the differences in the Brio family • Confidently connect the following devices; Windows 7, Windows 8, iOS and Android • Become familiar with the various Interfaces; Meeting Manager, Touch Control and Administration (System Settings)	15 minutes
Christie IMB *Available in English & Simplified Chinese*	• Work with content • Add automation • Perform a software upgrade • Configure audio • Troubleshoot common issues	15 minutes

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Christie Interactivity Kit	• Articulate the benefits of the Christie Interactivity Kit • Identify the proper installation procedure • Properly calibrate a system using the Dashboard software • Perform basic troubleshooting	15 minutes
Christie MicroTiles	• Describe the MicroTiles® system and key specifications • Identify how to install MicroTiles and use the User Interface (UI) • Design a MicroTiles canvas • Recognize the various cabling guidelines provided by Designer 2.0 and choose the most appropriate for your project • Describe the parts and modules of MicroTiles and discover some of their limitations • Follow procedures that allow you to service MicroTiles from the front and rear	65 minutes

Christie MicroTiles LED Foundations	• Articulate the key attributes of MicroTiles LED; including:
	  - Design
	  - Power
	  - Controller
	  - UI
	  - Installation
	  - Maintenance
		20 minutes

Christie MicroTiles LED System Design & Configuration	• Use the LED Designer to create a design for specific installation requirements • Interpret and apply the LED Designer documents • List the configuration steps	10 minutes
Christie NAS-S2 ***Available in English & Simplified Chinese***	• Articulate the procedure to set up a Christie NAS-S2 with preconfigured and customized settings • Connect the Christie NAS-S2 to a UPS • Recover a failed RAID group • Update the NAS-S2 firmware • Resolve common issues.	15 minutes

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Christie NAS-S3	• Articulate the procedure to set up a Christie NAS-S3 • Configure content replication • Use the NAS-S3 management application • Backup and restore the NAS-S3 • Troubleshoot	15 minutes
Christie Phoenix	• Articulate the specifications of the Christie Phoenix • Describe the Phoenix Node and provide a network overview • Properly connect the Phoenix System to a network • Properly connect sources to a Phoenix Node • Properly configure a Controller • Configure a Phoenix System using the Web Manager • Design a wall using the Desktop Client • Perform basic troubleshooting	1 hour, 30 minutes
Christie Spyder X20	• Build a configuration using one X20 frame in "normal" mode • Summarize Online VS offline mode • Verify outputs in system patch • Backup and restore • Define Pixelspace • Summarize maximum limitations and AORs • Load and mix background images	1 hour, 30 minutes

Christie Spyder Studio	• This 16-part course introduces you to Spyder Studio, including:
	   o New configuration
	   o GUI basics
	   o Treatments and frames
	   o Sources & routers
	   o Command keys
	   o Still images
		2 hours

Christie Terra	• Terra Startup Assistant Use the Terra Startup Assistant (TSA) • Assign address to Terra Transmitters and Receivers, using the TSA • Configure displays	45 minutes CTS 1 CTS-D 1 CTS-I 1

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	• Explain Genlock mode for SDVoE applications • Programming Source Routing & Creating Display Layouts • Summarize the various functions found within the Devices Tab • Global & User Tab	
Christie Terra SDVoE Input Card (TSIC)	• Supported products • Cabling & connectivity • Setup process • Control tips	45 minutes
Crimson User & Service	• Identify Crimson components • Perform a software upgrade • Perform multi-projector installations • Obtain error logs to help diagnose problems	45 minutes
D4K Introduction	• Describe what 4K means • Articulate the specifications of the Christie D4K2560/D4K3560 • Identify some of the major topics for the Christie D4K2560/D4K3560 theory of operation	30 minutes
EnteroHB webUI	• Properly Configure an EnteroHB using the webUI • Properly adjust the display settings • Properly configure the display and the wall	20 minutes
Flat Panels	• Articulate the main features and specifications of the FHD551-W • Properly handle and install the FHD551-W • Provide Troubleshooting and Servicing to the FHD551-W	20 minutes
HS Series	• This course will introduce you to the Christie HS Series.	35 minutes
J Series Foundation *Available in English, Simplified Chinese, & Spanish*	• System features • Projector elements	30 minutes

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JumpStart 2.0	• Describe JumpStart and its key benefits • Connect to the JumpStart server • Create and edit a Scenario using the JumpStart client • Properly unpack the JumpStart Server • Properly connect the JumpStart Server • Start the server and run the MicroTiles connection wizard. • Add content to the JumpStart Server • Work with and create scenarios using the JumpStart client.	60 minutes
M Series & J Series (combined) ***Available in English & Simplified Chinese***	• Identify the system features found in the M Series and J Series projectors • Identify the common elements found in the M Series and J Series projectors • Identify the main differences between the projectors • Describe key terms and embedded features	45 minutes
M Series Foundation	• Explain the elements that make up the M Series • Describe the Embedded features • Explain the key differentiators of the M Series • Describe the electronics and menu system • Describe tiling and PIP	30 minutes

Mystique
  1. Using Mystique to quickly & easily stack two or more projectors
  2. Using Mystique to warp and blend 4 projectors on a curved screen
  3. Using Mystique to quickly warp and blend on a flat screen or surface
	• Using Mystique for the following:
	  o Stack two or more projectors
	  o Warp & blend 4 or more projectors on a curved screen
	  o Warp & blend on a flat screen
		15 minutes

Pandoras Box Features	• 3D Preview • CITP Thumbnail Exchange • Curve Editor • AEON FX Engine	60 minutes

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	• Lock to Time • MIDI Show Control • DMX Art-Net Control • Video Export	

Pandoras Box Pre in-class training	• Networking
	• Graphics Card Configuration
	• Pandoras Box Products
	  - Usage Scenarios
	  - Pandoras Box Menu
		30 minutes
		
		CTS 1.5 CTS-D 1.5 CTS-I 1.5

Pandoras Box Version 5 – Basic Training	In this series of 20 videos we will: • Follow the projection creation workflow from beginning to end	3 hours
Pandoras Box Version 6 – 1st Grade Tutorials	This five-part course will cover: • Timeline programming with multiple layers • Softedge output on a 2nd screen • Layer structure and keyboard shortcuts • Fades between containers • 3D objects and textures • Preview cameras • Working with Z-Axis • Picture-in-Picture movement on a graphic layer • Layer play function • Moving 4 PIP in a sequence around the screen • Virtual Reality - Camera on 2 outputs	1 hour, 30 minutes CTS 0.75 CTS-D 0.75 CTS-I 0.75
Pandoras Box Version 6 – 2nd Grade Tutorials	This six-part course will cover: • Loading projects • Multiple sites • Virtual sites • Multiple sequences • Views • Moving 4 PIPs over all 6 outputs • Copy and paste multiple containers over sites • Working with presets • Multiple outputs in overview • Views/ view tab and panes • Different save modes • Create a virtual site • Hide/ remove multiple devices • Programming a new show on the virtual site • Programming a split screen video • Virtual site layer routing • Layer sorting/ Device ID/ Groups	1 hour, 30 minutes CTS 0.75 CTS-D 0.75 CTS-I 0.75

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	• Sequence control tab/ Cues tab • The Aeon FX engine • Support and Live-Trainings	
Pandoras Box Version 6 – What's New	• This course will highlight some of the new features found in Pandoras Box Version 6.	10 minutes
Pandoras Box Version 8 – Advanced import	• A short tutorial on how to use the Advanced Import feature introduced with Christie Pandoras Box Version 8.	5 minutes
Pandoras Box Version 8 – User profiles	• A short tutorial on how to use the user profiles introduced with Christie Pandoras Box Version 8.	5 minutes
Pandoras Box Warper	• Getting Started with Pandoras Box Warper	10 minutes
Pandoras Box Widget Designer	• Multi Touch Setup • Program Widget Designer commands directly into the timeline of Pandoras Box	45 minutes
Phoenix Network Requirements *Available in English & Simplified Chinese*	• Define multicast transport and discovery, used by Phoenix system • Summarize requirements for VLAN, IGMP Snooping and Query • Identify bandwidth requirements to communicate to customers • Recognize that addressing and subnetting must be approved by customer IT department	30 minutes CTS 1.5 CTS-D 1.5 CTS-I 1.5
RealLaser & CineLife Light Source	• Articulate the components of the LOS • Explain the function of each component that makes up the LOS • Identify the differences between Horizon LOS/LDCC, Skyline LOS/LDCC and GaN board design • Create Laser Files • Troubleshoot LOS malfunctions • Isolate component failures from environmental condition impact on the LOS	30 minutes

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RealLaser & CineLife safety	• Identify the sources of safety hazards in the projector • Safely install, service and operate the projector	30 minutes
Roadie 4K Introduction	• Articulate the specifications of the Roadie 4K35/4K45 • Identify some of the major components of the Roadie 4K35/4K45	15 minutes
SKA-3D	• Describe the Christie SKA-3D connectors • Watch videos showing you an overview of the WebUI	20 minutes
Solaria 4K	• Introduce Solaria Series and 4K compatibility • Explain Data Security and DCI compliancy	1 hour, 30 minutes CTS 0.75 CTS-D 0.75 CTS-I 0.75
System design considerations for MicroTiles LED video walls *(webinar)*	• Explain MicroTiles LED video wall technology capabilities for successful integration into a turn-key visualization solution	1 hour CTS 1 CTS-D 1 CTS-I 1
TVC-1700	• Articulate the main hardware features and specifications of the TVC-1700 • Properly install the TVC-1700 Properly connect the TVC-1700	15 minutes
TVC-700	• Articulate the main hardware features and specifications of the TVC-700 • Properly install the TVC-700 into a Rack or use it as a tower • Properly connect the TVC-700	15 minutes
Twist 2.x	• Summarize the configuration steps to properly setup a 1 x 2 curved screen using Christie Twist 2.	25 minutes
Vive Audio EQ & Crossover Settings	• Summarize the process of cinema auditorium EQ • Explain what a crossover is and its benefits to cinema audio • Explain how you compensate for high frequency losses • Explain how you compensate for nonlinearity	15 minutes

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	• Identify the differences between X-Curve and Vive Audio target curve.

Course name	Objectives	Notes
Vive Audio Fundamentals ***Available in English, Simplified Chinese, French, German, Italian, Russian, Spanish***	• Articulate current in-market solutions • Define Vive Audio • Describe the technology behind Vive	30 minutes
Vive Audio Gain Control	• Properly set the nominal amplifier gain controls settings for Vive Audio	15 minutes
Vive Audio Laser Alignment	• Properly align Vive Audio speakers using the recommended laser alignment procedures.	20 minutes

Technology

Course name	Objectives	Notes
4K ***Available in English & Spanish***	• Describe characteristics of 4K • Identify the connection types for 4K • Compare 4K to 2K, UltraHD, 4K 3D and Consumer versus Commercial 4K • Describe and summarise the steps for 4K Convergence	60 minutes CTS 1 CTS-D 1 CTS-I 0
ABCs of DLP ***Available in English & Spanish***	• Identify what DLP is • Explain how DLP works • Identify DLP projector categories	1 hour, 20 minutes CTS 1 CTS-D 1 CTS-I 0
Acronyms	• Identify the main acronyms and video standards used throughout the AV Industry	5 minutes
Audio Fundamentals ***Available in English, Simplified Chinese, French, German, Italian, Russian, Spanish***	• Describe Acoustic Sound Waves as well as Rarefaction and Compression • Define Frequency, Amplitude and dB • Compare and Contrast Analog and Digital Audio • Explain Sound Wave Propagation • Explain decibel & decibel in reference to voltage and power level	60 minutes CTS 1 CTS-D 1 CTS-I 0

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Course	Description	Duration	Credits
Christie RealLaser Cinema Projectors: Usage Best Practices	• This course will cover Christie RealLaser™ Cinema Projectors: Usage Best Practices	10 minutes	
Christie RealLaser illumination technology for cinema	• This course covers the dynamic relationship between brightness maintenance and environmental operating factors.	10 minutes	
Digital Cinema Basics **_Available in English & Spanish_**	• Define aspect ratio/screen relationship • 3D Setup and vendors • Provide an overview of the cinema "projection booth" environment • Identify the basic parts of a projection booth • Identify how OSA and Digital Cinema are integrated into the booth	15 minutes	CTS 0.5 CTS-D 0.5 CTS-I 0.5
Digital Projector Anatomy **_Available in English & Spanish_**	• Explore the inner structure of digital projectors • Identify a projector's major components and their functions	1 hour, 30 minutes	CTS 1.5 CTS-D 1.5 CTS-I 1.5

Front & Rear Projection Screens	This two series course will cover:
	• Various types of screens, including:
	   o Matte-White
	   o Grey
	   o Gain
	   o Curved
	   o Silver
	   o Diffusion Screens
	   o Optical Screens
	• Describe screen gain and ambient light rejection
	• Describe the advantages and disadvantages of rear-projection
		50 minutes	

Glossary	• Identify the main terms used at Christie and throughout the AV Industry	5 minutes	
Laser Phosphor	This course will cover the following: • What is LaPh? • Pure Laser • LaPh Advantages • The Future • Christie BoldColor	5 minutes	

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Course	Description	Duration	CTS	CTS-D	CTS-I
Laser Projection	This course will cover the following: • Laser Projection • Is Red Truly Red? • The Efficiency of Laser	5 minutes			
LCD Flat Panel Technology	• Define the fundamentals of LCD flat panel technology • Describe image quality considerations	60 minutes			
LED Fundamentals *Available in English & Simplified Chinese*	• Define key LED terminology • Summarize how LEDs work • Outline the advantages and challenges of LEDs and LED technology • Identify product applications	20 minutes	0.5	0.5	0.5
LED Video Walls	• Articulate how LEDs and LED video walls work • Define the key strengths and advantages of LED video walls • Articulate the configuration options	10 minutes			
Networking	• Define an IP address and subnet mask and what they consist of • Articulate why each device must have a unique IP address. • Change your IP address using Windows XP and Windows 7 and Mac OS • Discuss network hardware and fundamental network types as well as physical connection types	30 minutes			
Projection Technologies *Available in English & Spanish*	This course will cover: • Projection CRT (Cathode Ray Tube) • Analog Light Valves, incl. LCLV (Liquid Crystal Light Valve) • Projection LCD (Liquid Crystal Display) • LCoS (Liquid Crystal on Silicon) • DLP (Digital Light Processing)	60 minutes	1	1	0
Resolutions Basics *Available in English & Spanish*	• Describe the basics of image resolution in simulators • Recognize some factors and tradeoffs affecting dynamic and static resolution	45 minutes			

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Ribbon Driver Line Array	This course will cover: • Psychoacoustic proximity effect of line array systems • Advantages of Christie Vive Audio planar ribbon and line array technologies	10 minutes
SDVoE	• This course is a brief overview of SDVoE	10 minutes
Stereo 3D	• Identify the 4 main Stereo 3D modes and 3 sources of Stereo 3D content • Differentiate between Active and Passive and identify the advantages and disadvantages to both • Describe when and how to use: onboard test patterns, Dark Interval, Sync Input, Output and Delay	30 minutes
Tech Brief: Advantages of Remote Power for Video Walls	• This course will cover advantages of remote power for video walls.	10 minutes
Terms & Technologies	• Articulate the most commonly used terms • Differentiate between various technologies	5 minutes
The Facts of Light	• Identify the value proposition of Xenon and Pure RGB Laser over Laser Phosphor in the Cinema environment.	10 minutes
Video Wall Design Fundamentals	• Identify key video wall design fundamentals; including: display performance factors technology reliability and stability	30 minutes CTS 0.5 CTS-D 0.5 CTS-I 0

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Videos

Projector Lens Calculator

- Projector Lens Calculator
- Projector Lens Calculator for mobile
- Projector Lens Calculator for Ultra Short Throw Lens Job Aid

Product Training Videos

- Boxer Convergence
- Boxer Installing & Removing the Lens
- Boxer Light Engine Installation
- Boxer Light Engine Removal
- Boxer Optical Adjustments
- Configuring a Christie NAS-S2 for GDC SR-1000 IMB
- CP2309/2315/2320-RGB LOS removal
- CP2309/2315/2320-RGB Optical adjustment
- CP4415-RGB & CP4420-RGB Filter replacement
- CP4440-RGB & CP4450-RGB LOS removal
- CP4450-RGB Chiller Setup
- Fiber Cleaning Procedure
- Flat Panel Handling
- Front Access Cube 1 – Preparing the Pedestal
- Front Access Cube 2 – Installing the Cube
- Front Access Cube 3 – Projector Setup & Installation
- Front Access Cube 4 – Installing the Screen
- Front Access Cube 5 – Configuration
- GS Series – Install the Ultra Short Throw Lens
- H Series Filter Replacement
- H Series Lens Install & Removal
- Interactivity Kit Dashboard Configuration
- Interactivity Kit Setup
- JumpStart 1 – Intro & Unpacking the Server
- JumpStart 2 – Connecting the Server
- JumpStart 3 – Starting the Server for the First Time
- JumpStart 4 – Content on the JumpStart Server
- JumpStart 5 – Working with Scenarios
- Lamp Replacement (2210, 2215, One, One+)
- Lamp Replacement (2220, 2230, 4220, 4230)
- MicroTiles LED - How to align the mounting sheets
- MicroTiles Setup
- Module Replacement (Apex)

- Retrofitting a Solaria One/ One+ with the GDC SR-1000 IMB
- TPLS Chiller Hose Installation
- Twist 2
- Twist 2 Interface Tour

TECH minute
- Boxer 4K30 & Virtual Remote
- Co-converge J Series with Boxer
- Control 4K45
- Enable Colors
- Find Documents – Partner Portal
- LED Binning
- LED Cooling
- LED Fill Factor
- LED Quality ICs
- Pandoras Box and X80
- Spyder 344 Configuration Screen
- Spyder 344 Connection
- Spyder 344, 4 INS 4 OUTS
- Spyder Stock Input Configurations
- What is Spyder Studio?

Instructor-Led Training courses

Image Processing

Course	Objectives	Notes
Christie Phoenix	1. Articulate the terminology used that makes up the Phoenix System. 2. Confidently set up a system. 3. Become familiar with the User Interfaces; Controller Manager, Web Manager and Desktop Client.	2 Days CTS 7 CTS-D 7 CTS-I 7
Christie Spyder	1. Connect the Spyder to a network and control it with Spyder Studio. 2. Connect and configure sources and displays to the inputs and outputs. 3. Create and execute Command Keys, Function Keys and Scripting. 4. Save, backup and restore Vista Advanced Projects (vap files). 5. Create and apply Treatments. 6. Add and apply still images to layers and backgrounds. 7. Apply basic troubleshooting techniques.	3 Days CTS 21 CTS-D 21 CTS-I 21
Christie Terra (SDVoE)	Set up & install Christie Terra SDVoE	1 Day CTS 3.75 CTS-D 3.75 CTS-I 3.75
Pandoras Box (Grades 1 &2)	After introduction and general aspects of Media Server environments, this training examines the very first steps to get Pandoras Box setup and playback on screens. This training continues with more complex principles and advanced show setup. It covers all necessary knowledge to build your show in a larger Pandoras Box environment.	2 Days

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Spyder X80 *(virtual in-class)*	Understand X80 capabilities, be knowledgeable in X80 VI theory, and build a configuration in Spyder Studio software. Have a solid understanding on inputs, outputs, system patch, and testing functionality.	2 Days (9 hours) CTS 9 CTS-D 9 CTS-I 9
Widget Designer (Grades 1 & 2)	Widget Designer 1st Grade Training is the first step into control software scripting. This training continues to add more powerful ways of scripting to your knowledge. The node system and variables are introduced along with more Widgets and tools and CSS implementation as well	2 Days

Laser Illumination

Course	Objectives	Notes
RealLaser - TruLife	1. Explain how the RealLaser light source works. 2. Articulate the elements of a RealLaser light source. 3. Perform firmware upgrades. 4. Troubleshoot technical issues. 5. Adjust and calibrate a TruLife Series projector. 6. Install, configure and operate a RealLaser-illuminated projector properly and safely. 7. Disassemble/ reassemble a TruLife projector featuring RealLaser illumination.	3 Days CTS 21 CTS-D 21 CTS-I 21

Cinema Projection

Course	Objectives	Notes
Solaria Series II	1. Explain the Solaria Series theory of operation 2. Disassemble and reassemble Solaria Series projectors 3. Install and operate Solaria Series projectors and accessories 4. Adjust and calibrate Solaria Series projectors 5. Perform the Solaria Series Firmware upgrades 6. Troubleshoot the Solaria Series	4 Days CTS 30 CTS-D 30 CTS-I 30

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Course	Objectives	Notes
RealLaser & CineLife – Mainstream Cinema	1. Explain how the RealLaser light source works. 2. Articulate the elements of a RealLaser light source. 3. Disassemble/ reassemble a CineLife projector. 4. Install, configure and operate a RealLaser-illuminated projector properly and SAFELY. 5. Adjust and calibrate a CineLife Series projector. 6. Troubleshoot technical issues.	3 Days CTS 28 CTS-D 28 CTS-I 28
RealLaser & CineLife – Mainstream Cinema (+Automation & IMB)	This course adds knowledge of Automation and the Christie IMB to CineLife.	4 days CTS 14 CTS-D 14 CTS-I 14
RealLaser & CineLife+ - Premium Large Format	1. Explain how the CP4450-RGB light source works. 2. Articulate the elements of a CP4450-RGB light source. 3. Disassemble/ reassemble the CP4450-RGB projector featuring RealLaser illumination. 4. Install, configure and operate the CP4450-RGB projector properly and SAFELY. 5. Adjust and calibrate the CP4450-RGB projector. 6. Perform firmware upgrades. 7. Troubleshoot technical issues.	5 Days CTS 17.5 CTS-D 17.5 CTS-I 17.5

Non-cinema Projection

Course	Objectives	Notes
Boxer Installation & Service	1. Perform multi-projector installations 2. Demonstrate the successful use of Christie Twist® 3. Obtain error logs to help diagnose problems 4. Speak confidently about the projector modules and isolate where problems could be originating from 5. Perform various optical adjustments	2 days CTS 15 CTS-D 15 CTS-I 15

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Crimson User & Service	1. Perform multi-projector installations	2 Days
	2. Define and demonstrate the use of Christie Twist®	CTS 15 CTS-D 15 CTS-I 15
	3. Obtain error logs to help diagnose problems	
	4. Speak confidently about the projector modules and isolate where problems could be originating from	
	5. Perform various optical adjustments	
M Series & J Series	1. Perform a software upgrade	3 Days
	2. Setup Real Time Events	
	3. Perform multi-projector installations, including:	CTS 21 CTS-D 21 CTS-I 21
	o color matching and	
	o edge blending	
	4. Demonstrate the successful use of Christie Twist®	
	5. Obtain error logs to help diagnose problems	
	6. Demonstrate troubleshooting techniques	
	7. Perform various optical adjustments	

LED

Course	Objectives	Notes
MicroTiles LED	1. Properly setup and install a MicroTiles LED array	3 Days
	2. Properly configure an array	
	3. Troubleshoot and service an array	CTS 7.5 CTS-D 7.5 CTS-I 7.5
Direct View LED – Velvet Series	This covers Apex, Core, & CorePlus	3 Days
	1. Properly setup and install a Velvet LED array	CTS 11.25 CTS-D 11.25 CTS-I 11.25
	2. Properly configure an array	
	3. Troubleshoot and service an array	

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Christie AVIXA CTS Renewal Units

Course	CTS	CTS-D	CTS-I	Type
4k	1	1	0	eLearning
ABCs of DLP	1	1	0	eLearning
Audio Fundamentals	1	1	0	eLearning
AV over IP and SDVoE System Design Fundamentals	4	4	4	Webinar
Christie Boxer Installation & Service	15	15	15	In-class
Christie Phoenix (eLearning)	0.75	0.75	0.75	eLearning
Christie Phoenix (in-class)	7	7	7	In-class
Christie Spyder Training	21	21	21	In-class
Christie Terra (SDVoE)	3.75	3.75	3.75	In-class
CineLife (+Automation & IMB)	14	14	14	In-class
Crimson User & Service	15	15	15	In-class
Digital Cinema	30	30	30	In-class
Digital Cinema Basics	0.5	0.5	0	eLearning
Digital Projector Anatomy	1.5	1.5	0	eLearning
Direct View LED – Velvet Series	11.25	11.25	11.25	In-class
LED Displays - Christie Certified Specialist	7.5	7.5	7.5	Certification (blended)
LED Fundamentals	0.5	0.5	0.5	eLearning
M Series and J Series	21	21	21	In-class
MicroTiles LED	7.5	7.5	7.5	In-class
Pandoras Box	1.5	1.5	1.5	eLearning
Pandoras Box v6 – 1st Grade Tutorials	0.75	0.75	0.75	eLearning
Pandoras Box v6 – 2nd Grade Tutorials	0.75	0.75	0.75	eLearning
Phoenix Network Requirements	1.5	1.5	1.5	eLearning
Projection Technologies	1	1	0	eLearning
RealLaser – TruLife	21	21	21	In-class
RealLaser & CineLife – Mainstream Cinema	28	28	28	In-class
RealLaser & CineLife+ - Premium Large Format	17.5	17.5	17.5	In-class
Spyder X80 (virtual)	9	9	9	Virtual in-class
System design considerations for MicroTiles LED video walls	1	1	1	webinar
Terra (eLearning)	1	1	1	eLearning
Video Wall Design	0.5	0.5	0	eLearning

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