

State Standards		AUDIO AND VIDEO TECHNOLOGY AND FILM	National Codes	Secondary Delivery	Local Task ID Code/ Delivery Point	Post Secondary Delivery								
		RATING SCALE: 4 = Exceeds criteria and/or able to teach task 3 = Accomplishes task to criteria 2 = Accomplishes task with help 1 = Exposed to the task N = Not exposed to task												
SECTION # 3														
CLUSTER PATHWAY SKILLS														
				4	3	2	1	N		4	3	2	1	N
I		AUDIO AND VISUAL TECHNOLOGY AND FILM PATHWAY	I											
A		Explore career opportunities in Audio and Video Technology and Film.	1											
	1	Exhibit knowledge of the history of film and how it is specifically related to the industry today.	1.1											
		a Discuss the beginnings and evolution of audio and video production, and film.	1.11											
		b Describe how increasingly available technology is changing the audio and video, and film industries.	1.12											
	2	Analyze various careers and their job descriptions in audio and video technology, and film.	1.2											
		a Discuss the responsibilities of producers, including budgets, schedules, personnel, and tracking progress.	1.21											
		b Describe the responsibilities of directors, including knowledge of story structure, script analysis, the relationship to the production team, and the responsibilities of crewmembers.	1.22											
		c Describe the duties of editors for audio, video, and film productions.	1.23											
		d Discuss the duties of editors related to audio and visual effects.	1.24											
		e Describe various jobs associated with animation, including communications, video and feature-length productions; and Internet streaming.	1.25											
		f Discuss the responsibilities of others in this field, including lighting directors, cinematographers, videographers, sound engineers, stunt coordinators, special effects coordinators, productions specialists, and other crewmembers.	1.26											
	3	film production.	1.3											
		a Define commonly used audio production terminology.	1.31											
		b Define commonly used video production terminology.	1.32											
		c Define commonly used film production terminology.	1.33											
	4	Comprehend value of a broad general knowledge of fine arts & cultural and regional diversity.	1.4											
		a Identify various types of audio and visual approaches that convey information or create emotional impact.	1.41											
		b Explain how knowledge is useful in dealing with projects covering a broad spectrum of events, regions, or cultures while research may not be possible.	1.42											
B		Apply knowledge of equipment and skills related to audio production.	2											
	1	Comprehend the types of microphones, pick-up patterns, and techniques required for a variety of audio presentations.	2.1											
		a Identify microphones used for audio-video productions, music and theater.	2.11											
		b Explain why audio pick-up differs in various types of microphones.	2.12											
		c Describe the techniques to maximize sound performance using various audio formats.	2.13											
	2	Apply knowledge of audio equipment for productions, including basic recording equipment, equalizers, mixing consoles, and quality-monitoring equipment.	2.2											
		a Identify basic recording session equipment.	2.21											
		b Select equipment required for specific types of audio productions.	2.22											
		c Describe how an audio mixing console, quality-monitoring equipment, and basic recording session equipment are utilized.	2.23											
		d Demonstrate technical used for equalization.	2.24											
		e Demonstrate how to record and mix audio.	2.25											

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		3	Exhibit knowledge of analog and digital audio formats.			2.3										
		a	Distinguish between analog and digital audio formats.			2.31										
		b	Describe the difference in data signals and equipment for analog and digital technology.			2.32										
		4	Illustrate the techniques required for synchronization of an audio with video and multiple sound tracks.			2.4										
		a	Describe synchronization processes.			2.41										
		b	Demonstrate how audio is synchronized with other audio or video.			2.42										
		5	Demonstrate writing audio scripts for various types of programs.			2.5										
		a	Identify the key elements required in audio scripts.			2.51										
		b	Explain how various styles of music can create a specific emotional impact.			2.52										
		c	Apply writing skills to the development of a short audio script.			2.53										
C			Apply knowledge of equipment and skills related to video production.			3										
		1	Apply knowledge of lighting requirements for a planned production.			3.1										
		a	Identify types and placement of lighting fixtures for various lighting effects.			3.11										
		b	Demonstrate lighting techniques used for portable and studio productions.			3.12										
		c	Demonstrate operation of a master lighting panel and dimmer panel board.			3.13										
		2	Apply knowledge of analog and digital video systems.			3.2										
		a	Distinguish between analog and digital video formats.			3.21										
		b	Describe the difference in data signals and equipment for analog and digital technology.			3.22										
		3	Demonstrate operation and maintenance of video systems.			3.3										
		a	Describe the Beta SP 1/2 inch operating system.			3.31										
		b	Describe Mini DV, non-linear memory devices, and HDTV.			3.32										
		c	Demonstrate operation of video cameras and switchers.			3.33										
		d	Demonstrate how to clean, tune, and align video equipment.			3.34										
		4	Demonstrate camera operations, video signals, and video formats.			3.4										
		a	Describe how to frame and maintain picture composition.			3.41										
		b	Demonstrate focusing and adjusting images, and performing pans and zooms.			3.42										
		c	Interpret video signals and production formats.			3.43										
		5	Exhibit knowledge of computer-based development of video production and editing, with an emphasis on digital technology.			3.5										
		a	Define terms associated with computer-based production, including notion video: AVI, QuickTime and MPEG; and stills: JPEG and TIFF.			3.51										
		b	Identify types of software used in the development of video files and animations.			3.52										
		c	Demonstrate how to use software for developing a simple video.			3.53										
		d	Demonstrate using software to edit a video.			3.54										
D			Exhibit knowledge of editing audio and video productions.			4										
		1	Identify the basic functions and resources for editing.			4.1										
		a	Define editing related to audio and video productions.			4.11										
		b	Describe differences between offline & online edition related to low- & high-resolution input, respectively.			4.12										
		c	Identify editing skills related to various delivery requirement including commercial broadcast and other forms of distribution.			4.13										
		d	Describe the significance of digital technology and high definition production, and the required equipment related to editing.			4.14										
		2	Apply knowledge of basic editing to both linear and nonlinear systems.			4.2										
		a	Describe linear and nonlinear systems.			4.21										
		b	Demonstrate skills required for editing using these systems.			4.22										
		3	Apply knowledge of control peripherals used for editing.			4.3										
		a	Describe various digital platforms such as, high definition, DVC Pro, and Digital Beta.			4.31										

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E					Demonstrate technical production support or audio, video, and film presentations.	5											
	1				Demonstrate repairing and servicing transmitting and receiving systems.	5.1											
		a			Describe the need for temperature stability.	5.11											
		b			Describe the connection between receiver sensitivity and measurement of image rejection.	5.12											
		c			Demonstrate how to align the receivers and transceivers for operation.	5.13											
		d			Demonstrate basic preventative maintenance.	5.14											
	2				Apply knowledge of wireless and wired transmission systems.	5.2											
		a			Define wireless system components.	5.21											
		b			Define wired system components.	5.22											
		c			Describe how to repair transmitting and receiving, and multiple channel systems.	5.23											
	3				Demonstrate installation of cabling for audio and video productions.	5.3											
		a			Demonstrate reading a signal flow diagram to determine cabling route.	5.31											
		b			Demonstrate pulling and securing cable.	5.32											
		c			Demonstrate how to document the routing.	5.33											
	4				Demonstrate the installation of a wireless audio-video system operations.	5.4											
		a			Identify how to determine if the power supply is adequate.	5.41											
		b			Demonstrate placement of a wireless audio system for efficient operation.	5.42											
		c			Describe a scenario that requires building support structure and tie-downs.	5.43											
	5				Demonstrate how to troubleshoot audio-video system operations.	5.5											
		a			Identify the sequence required for troubleshooting.	5.51											
		b			Conduct a troubleshooting sequence.	5.52											
		c			Identify problems and potential solutions.	5.53											
F					Exhibit the knowledge and skills required to design a production for audio- video presentations.	6											
	1				Apply knowledge of the critical elements in designing a production throughout the stages of pre-production, production, and postproduction.	6.1											
		a			Create a short script and identify the resources needed to begin the production.	6.11											
		b			Identify the activities associated with pre-production, production, and postproduction.	6.12											
		c			Analyze the script and storyboard development processes for successful production.	6.13											
		d			Identify the linkage from each stage to the next in processes and activities.	6.14											
		e			Identify the team roles required for completion of a production.	6.15											
		f			Identify equipment, crew, and cast requirements for a short, scripted audio-video.	6.16											
		g			Identify several means to work within budget restraints.	6.17											
		h			Conduct a casting day for the script.	6.18											
		i			Execute production of the script.	6.19											
		j			Critique a production to determine how the various elements resulted in a successful or unsuccessful presentation.	6.11											