





Duties and Tasks	Knowledge of	Skills and Abilities	Tools, Equipment, and Resources
A Conduct a Ne	eds Assessment		
Identify functi	onal requirements (e.g., user stories, user experie	nce, benchmarking, client expectations)	
	accessibility requirements	ability to conduct a site survey	accessibility standards
	acoustical principles (e.g. isolation, reverberation, noise reduction, speech intelligibility, ambient noise)	ability to document findings	architectural models and renderings
	allied trades (e.g., mechanical, electrical, plumbing, security, comms, HVAC, structural, BMS)	ability to identify appropriate stakeholders	as-builts
	audiovisual products and appropriate applications	ability to manage expectations	benchmarking samples
	client needs (e.g., existing infrastructure, standards, desired outcomes)	attention to detail	camera
	client organizational structure industry best practices and standards	customer service skills interviewing skills	case studies client technology standards
	industry jargon and terminology (e.g., AV and allied trades)	measurement skills	computer
	industry products and trends	observational skills	document management tools
	interaction between AV design and other systems	presentation skills	industry resources
	interview techniques IT and networking lighting design principles local laws and regulations measurement conversions project budgeting project contractual relationships project procurement process user experience design user interface design	prioritization skills professional communication skills research skills technical writing skills	industry standards internet local and regional regulations measurement instruments measurement software user stories white papers
2 Review or form	nulate client technology master plan		
	accessibility requirements	ability to document findings	accessibility standards
	acoustical principles (e.g. isolation, reverberation, noise reduction, speech intelligibility, ambient noise)	ability to identify appropriate stakeholders	architectural models and renderings
	allied trades (e.g., mechanical, electrical, plumbing, security, comms, HVAC, structural, BMS)	ability to manage expectations	as-builts
	audiovisual products and appropriate applications	attention to detail	benchmarking samples
	client needs (e.g., existing infrastructure, client organizational structure	customer service skills interviewing skills	case studies client technology standards
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	equipment life cycles	measurement skills	computer
	industry best practices and standards	observational skills	document management tools
	industry jargon and terminology (e.g., AV and allied trades)	presentation skills	industry resources
	industry products and trends	prioritization skills	industry standards
	interaction between AV design and other systems	professional communication skills	internet
	interview techniques IT and networking lighting design principles local laws and regulations project budgeting project contractual relationships project procurement process user experience design user interface design	technical writing skills	local and regional regulations user stories white papers
3 Generate and	/or Review the Program Report		
	accessibility requirements	ability to budget and estimate	accessibility standards
	acoustical principles (e.g. isolation, reverberation, noise reduction, speech intelligibility, ambient noise)	ability to document findings	architectural models and renderings
	allied trades (e.g., mechanical, electrical, plumbing, security, comms, HVAC, structural, BMS)	ability to identify appropriate stakeholders	benchmarking samples
	audiovisual products and appropriate applications	ability to manage expectations	budgeting tools
	bid/tender process	attention to detail	case studies
	client needs (e.g., existing infrastructure, standards, desired outcomes)	AV math skills	client technology standards
	client organizational structure contract requirements industry best practices and standards	measurement skills observational skills presentation skills	computer cut sheets and product specifications document management tools
	industry jargon and terminology (e.g., AV and allied trades)	prioritization skills	industry resources
	industry products and trends	professional communication skills	industry standards
	interaction between AV design and other systems	technical writing skills	internet
	IT and networking lighting design principles		local and regional regulations measurement instruments
	local laws and regulations	1	1





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pr	project budgeting		white papers
pr	roject contractual relationships		
pr	project procurement process		
us	ser experience design		
us	ser interface design		
B Coordinate with	Other Professionals		
(Coordinate with	architectural/interior design professionals		
ac	accessibility requirements	ability to annotate drawings	A/E (architectural and engineering) drawing package
no	coustical principles (e.g. isolation, reverberation, oise reduction, speech intelligibility, ambient oise)	ability to collaborate with allied trades	accessibility standards
ae	esthetic considerations	ability to convey the impact of architectural and interior design on AV system design	architectural models and renderings
	ıllied trades (e.g., mechanical, electrical, ılumbing, security, comms, HVAC, structural, BMS)	ability to document findings	BIM
cc dr er fir im fu re im in al in lig lo m	construction drawings and plans contract requirements lrawing and symbol standards regonomic considerations inancial impacts of design changes mage capturing best practices (e.g. wall and urniture colors, patterns, lighting, surface effectivity) mpact of materials on room acoustics industry jargon and terminology (e.g., AV and allied trades) interaction between AV design and other systems ghting design principles local laws and regulations measurement conversions project contractual relationships project management techniques	ability to estimate cost impacts ability to identify appropriate stakeholders ability to interpret charts and schedules ability to manage expectations ability to read construction drawings ability to read technical drawings and specifications attention to detail AV math skills drafting skills general math skills measurement skills negotiation skills observational skills prioritization skills professional communication skills spatial awareness skills	budgeting tools CAD client technology standards computer document management tools industry and allied trade standards internet local and regional regulations measurement instruments PDF reader/writer
		technical writing skills	







2 Coordinate with structural professionals		
acoustical principles (e.g. isolation, reverberation noise reduction, speech intelligibility, ambient noise)	, ability to annotate drawings	A/E (architectural and engineering) drawing package
aesthetic considerations	ability to collaborate with allied trades	architectural models and renderings
allied trades (e.g., mechanical, electrical, plumbing, security, comms, HVAC, structural, BMS	ability to convey the impact of structural design (e.g. acoustic, safety, aesthetic)	ВІМ
construction drawings and plans	ability to document findings	budgeting tools
contract requirements drawing and symbol standards	ability to estimate cost impacts ability to identify appropriate stakeholders	CAD computer
equipment rigging and mounting best practices	ability to interpret charts and schedules	document management tools
financial impacts of design changes impact of materials on room acoustics	ability to manage expectations ability to read construction drawings	industry and allied trade standards internet
industry jargon and terminology (e.g., AV and allied trades)	ability to read technical drawings and specifications	local and regional regulations
interaction between AV design and other system	attention to detail	measurement instruments
local laws and regulations	AV math skills	PDF reader/writer
measurement conversions project contractual relationships project management techniques structural terminology working loads and safety factors	drafting skills general math skills measurement skills negotiation skills observational skills prioritization skills professional communication skills spatial awareness skills	structural engineer contact
	technical writing skills	
3 Coordinate with mechanical, electrical, and plumbing profess	ionals	
accessibility requirements	ability to annotate drawings	A/E (architectural and engineering) drawing package
acoustical principles (e.g. isolation, reverberation noise reduction, speech intelligibility, ambient noise)	ability to collaborate with allied trades	accessibility standards
allied trades (e.g., mechanical, electrical, plumbing, security, comms, HVAC, structural, BMS	ability to document findings	architectural models and renderings





	cable management best practices	ability to document findings	ВІМ
	construction drawings and plans	ability to estimate cost impacts	budgeting tools
	contract requirements	ability to interpret charts and schedules	CAD
	drawing and symbol standards	ability to manage expectations	client technology standards
	financial impacts of design changes	ability to read construction drawings	computer
	industry jargon and terminology (e.g., AV and allied trades)	ability to read technical drawings and specifications	document management tools
	interaction between AV design and other systems	attention to detail	industry and allied trade standards
	lighting design principles local laws and regulations measurement conversions project contractual relationships project management techniques	AV math skills drafting skills general math skills measurement skills negotiation skills observational skills prioritization skills professional communication skills spatial awareness skills	internet local and regional regulations measurement instruments PDF reader/writer
		technical writing skills	
4 Coordinate wit	I th IT and network security professionals		
	accessibility requirements	ability to annotate drawings	A/E (architectural and engineering) drawing package
	aesthetic considerations	ability to calculate bandwidth and PoE requirements	accessibility standards
	allied trades (e.g., mechanical, electrical, plumbing, security, comms, HVAC, structural, BMS)	ability to collaborate with allied trades	architectural models and renderings
	bandwidth and latency requirements	ability to convey the impact of network design on AV system design (e.g. budgetary, existing network vs separate network, redundancy)	ВІМ
	cabling infrastructure (e.g. fiber optics, copper, connections)	ability to document findings	budgeting tools
	construction drawings and plans	ability to estimate cost impacts	CAD
	contract requirements	ability to identify appropriate stakeholders ability to identify AV transport methodology	client technology standards
	drawing and symbol standards	requirements	computer
	encryption standards	ability to interpret charts and schedules	computer





	financial impacts of design changes	ability to manage expectations	document management tools
	fundamentals of switch configuration (e.g. QoS, prioritization, green ethernet)	ability to read construction drawings	industry and allied trade standards
	industry jargon and terminology (e.g., AV and allied trades)	ability to read technical drawings and specifications	internet
	interaction between AV design and other systems	attention to detail	IT drawings
	IT and networking terminology	AV math skills	local and regional regulations
	local laws and regulations	cable management skills	measurement instruments
	measurement conversions	drafting skills	network standards
	network access requirements	general math skills	PDF reader/writer
	network architecture (e.g. logical topology, physical topology, VLAN, routing, PoE requirements)	measurement skills	
	network security standards (e.g. wireless) OSI model project contractual relationships project management techniques	negotiation skills observational skills prioritization skills professional communication skills	
	signal protocols and requirements (e.g. conference, voice, audio, video, wireless)	technical writing skills	
5 Coordinate wit	h acoustical professionals		
	acoustical principles (e.g. isolation, reverberation, noise reduction, speech intelligibility, ambient noise)	ability to annotate drawings	A/E (architectural and engineering) drawing package
	aesthetic considerations	ability to collaborate with allied trades	accessibility standards
	allied trades (e.g., mechanical, electrical, plumbing, security, comms, HVAC, structural, BMS)	ability to convey the acoustical needs for the AV design	acoustical modeling software
	audio best practices (e.g. room materials, capturing, reinforcement)	ability to document findings	acoustical reports
	construction drawings and plans contract requirements drawing and symbol standards financial impacts of design changes	ability to estimate cost impacts ability to identify appropriate stakeholders ability to interpret charts and schedules ability to manage expectations	architectural models and renderings BIM budgeting tools CAD
	impact of materials on room acoustics	ability to read construction drawings	computer





	industry jargon and terminology (e.g., AV and allied trades)	ability to read technical drawings and specifications	document management tools
	interaction between AV design and other systems	attention to detail	industry and allied trade standards
	local laws and regulations measurement conversions project contractual relationships project management techniques	AV math skills drafting skills general math skills measurement skills	internet local and regional regulations measurement instruments PDF reader/writer
		negotiation skills	sound system modeling software
		observational skills	
		prioritization skills	
		professional communication skills	
		spatial awareness skills	
		technical writing skills	
6 Coordinate wi	th life safety and security professionals		
	allied trades (e.g., mechanical, electrical, plumbing, security, comms, HVAC, structural, BMS)	ability to annotate drawings	A/E (architectural and engineering) drawing package
		ability to annotate drawings ability to collaborate with allied trades	
	plumbing, security, comms, HVAC, structural, BMS)		package
	plumbing, security, comms, HVAC, structural, BMS) basic control protocols	ability to collaborate with allied trades	package accessibility standards
	plumbing, security, comms, HVAC, structural, BMS) basic control protocols construction drawings and plans	ability to collaborate with allied trades ability to document findings	package accessibility standards architectural models and renderings
	plumbing, security, comms, HVAC, structural, BMS) basic control protocols construction drawings and plans contract requirements drawing and symbol standards	ability to collaborate with allied trades ability to document findings ability to estimate cost impacts ability to identify appropriate stakeholders	package accessibility standards architectural models and renderings BIM budgeting tools
	plumbing, security, comms, HVAC, structural, BMS) basic control protocols construction drawings and plans contract requirements drawing and symbol standards financial impacts of design changes industry jargon and terminology (e.g., AV and	ability to collaborate with allied trades ability to document findings ability to estimate cost impacts ability to identify appropriate stakeholders ability to interpret charts and schedules	package accessibility standards architectural models and renderings BIM budgeting tools CAD
	plumbing, security, comms, HVAC, structural, BMS) basic control protocols construction drawings and plans contract requirements drawing and symbol standards financial impacts of design changes industry jargon and terminology (e.g., AV and allied trades) interaction between AV design and other systems (e.g., BMS, fire detection, access control, camera	ability to collaborate with allied trades ability to document findings ability to estimate cost impacts ability to identify appropriate stakeholders ability to interpret charts and schedules ability to manage expectations	package accessibility standards architectural models and renderings BIM budgeting tools CAD client technology standards





local laws and regulations measurement conversions physical security issues project contractual relationships project management techniques	AV math skills cable management skills drafting skills general math skills measurement skills negotiation skills observational skills prioritization skills professional communication skills technical writing skills	internet local and regional regulations measurement instruments PDF reader/writer sound system modeling software
7 Coordinate with site or project specific professionals (e.g., con	tent creators, theatrical, exhibit designer)	
accessibility requirements	ability to annotate drawings	A/E (architectural and engineering) drawing package
acoustical principles (e.g. isolation, reverberation, noise reduction, speech intelligibility, ambient noise)	ability to collaborate with allied trades	accessibility standards
aesthetic considerations	ability to convey the specialty needs of the AV design	architectural models and renderings
allied trades (e.g., mechanical, electrical, plumbing, security, comms, HVAC, structural, BMS)	ability to document findings	вім
audio best practices (e.g. room materials, capturing, reinforcement)	ability to estimate cost impacts	budgeting tools
construction contractual relationships construction drawings and plans contract requirements drawing and symbol standards ergonomic considerations	ability to identify appropriate stakeholders ability to interpret charts and schedules ability to manage expectations ability to read construction drawings ability to read technical drawings and specifications	CAD client technology standards computer document management tools industry and allied trade standards
financial impacts of design changes	attention to detail	internet
image capturing best practices (e.g. wall and furniture colors, patterns, lighting, surface reflectivity)	AV math skills	local and regional regulations
impact of materials on room acoustics industry jargon and terminology (e.g., AV and	drafting skills general math skills	measurement instruments PDF reader/writer
interaction between AV design and other systems	measurement skills	
life safety considerations lighting design principles local laws and regulations	negotiation skills observational skills prioritization skills	





r	measurement conversions	professional communication skills	
p	project management techniques	spatial awareness skills	
		technical writing skills	
C Develop and Do	ocument AV Designs		
1 Create concept	ual AV design		
c	accessibility requirements	ability to budget and estimate	accessibility standards
r	acoustical principles (e.g. isolation, reverberation, noise reduction, speech intelligibility, ambient noise)	ability to design a sound system (e.g., number of speakers, appropriate type of speaker, loudness needed)	acoustical modeling software
	allied trades (e.g., mechanical, electrical, blumbing, security, comms, HVAC, structural, BMS)	ability to design a video system (e.g., brightness, viewing requirements, sightlines, contrast)	architectural models and renderings
c	audio, video, and control systems architectures	ability to determine viewing angles, sightlines, and viewing distance	benchmarking samples
	audiovisual products and appropriate applications	ability to document findings	BIM
	AV services (e.g., software, conferencing, storage, streaming, digital signage)	ability to identify appropriate stakeholders	budgeting tools
c	cabling infrastructure	ability to interpret charts and schedules	CAD
	client needs (e.g., existing infrastructure, standards, desired outcomes)	ability to manage expectations	case studies
c	client organizational structure	ability to read technical drawings and specifications	client technology standards
C	contract requirements	attention to detail	computer
	drawing and symbol standards	AV math skills	construction development drawings
	ndustry best practices and standards	customer service skills	construction documents
	ndustry jargon and terminology (e.g., AV and allied trades)	drafting skills	contract
i	ndustry products and trends	measurement skills	cut sheets and product specifications
i	nteraction between AV design and other systems	observational skills	document management tools
ľ	T and networking	presentation skills	industry resources
	ighting design principles	prioritization skills	industry standards
le	ocal laws and regulations	problem solving skills	internet
p	project budgeting	professional communication skills	local and regional regulations





project documentation process project documentation process project timelines and milestones signal flow system operation user experience design user interface design 2 Revise conceptual design to be compatible with site conditions and/or AXE drawing package accessibility requirements acoustical principles (e.g. isolation, reverberation, noise reduction, speech intelligibility, ambient noise) allied trades (e.g., mechanical, electrical, plumbing, security, comms, HVAC, structural, BMS) audio, video, and control systems architectures audiovisual products and appropriate applications AV services (e.g., software, conferencing, storage, streaming, digital signage) technical writing skills measurement instruments program report scope of work sound system modeling software user stories white papers adbility to budget and estimate accessibility standards accessibility standards accessibility standards accessibility to document findings architectural models and renderings ability to identify appropriate stakeholders ability to identify infrastructure requirements ability to identify infrastructure requirements ability to manage expectations ability to manage expectations ability to read technical drawings and specifications CAD			T	T
project procurement process project timelines and milestones signal flow system operation user experience design user interface design accessibility requirements acoustical principles (e.g. isolation, reverberation, noise reduction, speech intelligibility, ambient noise) allied trades (e.g., mechanical, electrical, plumbing, security, comms, HVAC, structural, BMS) audio, video, and control systems architectures audiovisual products and appropriate applications AV services (e.g., software, conferencing, storage, ability to manage expectations scope of work sound system modeling software user stories white papers accessibility requirements ability to budget and estimate accessibility standards accessibility standards architectural models and renderings ability to identify appropriate stakeholders ability to identify infrastructure requirements ability to identify infrastructure requirements ability to manage expectations budgeting tools	J	project contractual relationships	technical writing skills	measurement instruments
project timelines and milestones signal flow system operation user experience design user interface design 2 Revise conceptual design to be compatible with site conditions and/or A&E drawing package accessibility requirements ability to budget and estimate acoustical principles (e.g. isolation, reverberation, noise reduction, speech intelligibility, ambient noise) allied trades (e.g., mechanical, electrical, plumbing, security, comms, HVAC, structural, BMS) audio, video, and control systems architectures audiovisual products and appropriate applications AV services (e.g., software, conferencing, storage, ability to read technical drawings and	I	project documentation process		program report
signal flow system operation user experience design user interface design 2 Revise conceptual design to be compatible with site conditions and/or A&E drawing package accessibility requirements acoustical principles (e.g. isolation, reverberation, noise reduction, speech intelligibility, ambient noise) allied trades (e.g., mechanical, electrical, plumbing, security, comms, HVAC, structural, BMS) audio, video, and control systems architectures audiovisual products and appropriate applications AV services (e.g., software, conferencing, storage, ability to read technical drawings and	ľ	project procurement process		scope of work
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user experience design user interface design 2 Revise conceptual design to be compatible with site conditions and/or A&E drawing package accessibility requirements acoustical principles (e.g. isolation, reverberation, noise reduction, speech intelligibility, ambient noise) allied trades (e.g., mechanical, electrical, plumbing, security, comms, HVAC, structural, BMS) audio, video, and control systems architectures audiovisual products and appropriate applications AV services (e.g., software, conferencing, storage, ability to read technical drawings and accessibility standards accessibility standards accessibility to budget and estimate accessibility to budget and estimate accessibility to budget and estimate accessibility to document findings architectural models and renderings ability to identify appropriate stakeholders ability to identify infrastructure requirements BIM ability to manage expectations budgeting tools		3		
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Revise conceptual design to be compatible with site conditions and/or A&E drawing package accessibility requirements acoustical principles (e.g. isolation, reverberation, noise reduction, speech intelligibility, ambient noise) allied trades (e.g., mechanical, electrical, plumbing, security, comms, HVAC, structural, BMS) audio, video, and control systems architectures audiovisual products and appropriate applications AV services (e.g., software, conferencing, storage, ability to read technical drawings and	1	user experience design		
accessibility requirements acoustical principles (e.g. isolation, reverberation, noise reduction, speech intelligibility, ambient noise) allied trades (e.g., mechanical, electrical, plumbing, security, comms, HVAC, structural, BMS) audio, video, and control systems architectures audiovisual products and appropriate applications AV services (e.g., software, conferencing, storage,	1	user interface design		
acoustical principles (e.g. isolation, reverberation, noise reduction, speech intelligibility, ambient noise) allied trades (e.g., mechanical, electrical, plumbing, security, comms, HVAC, structural, BMS) audio, video, and control systems architectures audiovisual products and appropriate applications AV services (e.g., software, conferencing, storage, ability to read technical drawings and	2 Revise concept	eptual design to be compatible with site conditions	and/or AδE drawing package	
noise reduction, speech intelligibility, ambient noise) allied trades (e.g., mechanical, electrical, plumbing, security, comms, HVAC, structural, BMS) audio, video, and control systems architectures audiovisual products and appropriate applications AV services (e.g., software, conferencing, storage, ability to document findings ability to document findings architectural models and renderings av conceptual design BIM budgeting tools	•	accessibility requirements	ability to budget and estimate	accessibility standards
noise reduction, speech intelligibility, ambient noise) allied trades (e.g., mechanical, electrical, plumbing, security, comms, HVAC, structural, BMS) audio, video, and control systems architectures audiovisual products and appropriate applications AV services (e.g., software, conferencing, storage, ability to document findings ability to document findings architectural models and renderings av conceptual design BIM budgeting tools	1	acoustical principles (e.g. isolation, reverberation,		
allied trades (e.g., mechanical, electrical, plumbing, security, comms, HVAC, structural, BMS) audio, video, and control systems architectures audiovisual products and appropriate applications AV services (e.g., software, conferencing, storage, ability to read technical drawings and			ability to document findings	architectural models and renderings
plumbing, security, comms, HVAC, structural, BMS) audio, video, and control systems architectures audiovisual products and appropriate applications AV services (e.g., software, conferencing, storage, ability to identify appropriate stakeholders BIM budgeting tools	J	noise)		
plumbing, security, comms, HVAC, structural, BMS) audio, video, and control systems architectures audiovisual products and appropriate applications AV services (e.g., software, conferencing, storage, ability to identify appropriate stakeholders BIM budgeting tools				
audio, video, and control systems architectures ability to identify infrastructure requirements audiovisual products and appropriate applications AV services (e.g., software, conferencing, storage, ability to read technical drawings and	ſ	allied trades (e.g., mechanical, electrical,	ability to identify appropriate stakeholders	ay conceptual decian
audiovisual products and appropriate ability to manage expectations AV services (e.g., software, conferencing, storage, ability to read technical drawings and	I	plumbing, security, comms, HVAC, structural, BMS)	ability to identify appropriate stakeholders	av conceptual design
audiovisual products and appropriate ability to manage expectations AV services (e.g., software, conferencing, storage, ability to read technical drawings and				
audiovisual products and appropriate ability to manage expectations AV services (e.g., software, conferencing, storage, ability to read technical drawings and		gudio video and control systems architectures	ability to identify infrastructure requirements	DIM
applications AV services (e.g., software, conferencing, storage, ability to read technical drawings and	ľ	dudio, video, and control systems architectures	ability to identify infrastructure requirements	DIM
applications AV services (e.g., software, conferencing, storage, ability to read technical drawings and	1	audiovisual products and appropriate		
			ability to manage expectations	budgeting tools
streaming, aigital signage) specifications				CAD
	\$	streaming, digital signage)	specifications	
cabling infrastructure attention to detail camera	ļ,	cabling infrastructure	attention to detail	camera
client needs (e.g., existing infrastructure, AV math skills client technology standards			AV math skills	client technology standards
standards, desired outcomes)	:	standards, desired outcomes)		
client organizational structure drafting skills computer	1	client organizational structure	drafting skills	computer
drawing and symbol standards measurement skills construction development drawings	ļ,	drawing and symbol standards	measurement skills	construction development drawings
Solution and an action and an action and an action action and an action				
electrical systems power and grounding/earthing observational skills cut sheets and product specifications	•	electrical systems power and grounding/earthing	observational skills	cut sheets and product specifications
equipment mounting presentation skills document management tools	1	equipment mounting	presentation skills	document management tools
industry best practices and standards prioritization skills industry resources	į	industry best practices and standards	prioritization skills	industry resources
industry jargon and terminology (e.g., AV and problem solving skills industry standards	į	industry jargon and terminology (e.g., AV and	problem solving skills	industry standards
allied trades)	(allied trades)	problem solving skins	middai y atanidarda





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	industry products and trends	professional communication skills	internet
	interaction between AV design and other systems	technical writing skills	local and regional regulations
	interaction between AV design and other systems		measurement instruments
	IT and networking		PDF reader/writer
	life safety principles (e.g., intelligibility, alarm notifications, mass notifications, emergency power)		Personal Protective Equipment (PPE)
	lighting design principles		program report
	local laws and regulations project budgeting project contractual relationships project requirements signal flow signal limitations system operation		tool kit
	user experience design		
	user interface design		
3 Produce final o	design and drawing package		
	accessibility requirements	ability to budget and estimate	accessibility standards
	acoustical principles (e.g. isolation, reverberation, noise reduction, speech intelligibility, ambient noise)	ability to create schematic diagrams	acoustical modeling software
	allied trades (e.g., mechanical, electrical, plumbing, security, comms, HVAC, structural, BMS)	ability to design a sound system (e.g., number of speakers, appropriate type of speaker, loudness needed)	architectural models and renderings
	audio components	ability to design a video system (e.g., brightness, viewing requirements, sightlines, contrast)	audio design software
	audiovisual products and appropriate applications	ability to determine image size for application	av conceptual design
	AV furniture	ability to determine viewing angles, sightlines, and viewing distance	BIM
	AV services (e.g., software, conferencing, storage, streaming, digital signage)	ability to document findings	budgeting tools





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bid/tender process	ability to identify infrastructure requirements	CAD
cabling infrastructure	ability to identify potential interferences	case studies
client needs (e.g., existing infrastructure, standards, desired outcomes)	ability to interpret charts and schedules	client branding guidelines
contract requirements	ability to manage expectations	client network standards
control components	ability to produce custom furniture details	client technology standards
digital rights management	ability to read and evaluate product specifications	computer
digital signal processing	ability to read technical drawings and specifications	construction documents
display image attributes	attention to detail	construction drawings
EDID management	AV math skills	contract
electrical systems power and grounding/earthing	customer service skills	cut sheets and product specifications
equipment rigging and mounting best practices	drafting skills	document management tools
ergonomic considerations	measurement skills	industry resources
human factors (e.g. ergonomics, intelligibility, psychoacoustics)	observational skills	industry standards
industry best practices and standards	presentation skills	internet
industry jargon and terminology (e.g., AV and allied trades)	prioritization skills	local and regional regulations
industry products and trends	problem solving skills	manufacturer contacts
IP based audio and video protocols	professional communication skills	measurement instruments
IT and networking	research skills	PDF reader/writer
life safety principles (e.g., intelligibility, alarm notifications, mass notifications, emergency power)	technical writing skills	Printer/plotter
lighting design principles		program report
local laws and regulations		reference manuals
principles of RF and IR		scope of work
project budgeting		site survey
project contractual relationships		sound system modeling software
project documentation process		user and installation manuals





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	project procurement process		white papers
	project timelines and milestones		
	redundancy		
	signal distance limitations		
	signal flow		
	signal timing (e.g., Genlock, video sync, audio sync)		
	system operation		
	user experience design		
	user interface design		
	video components video formats (e.g., HDTV, 4K, UHD)		
	visual acuity (e.g., relationship between font size,		
	screen size, and viewing distance)		
4 Finalize project	t documentation (e.g., bill of materials, bid spec,	drawings, scope of work)	
	accessibility requirements	ability to budget and estimate	bid/tender documentation
	allied trades (e.g., mechanical, electrical, plumbing, security, comms, HVAC, structural, BMS)	ability to conduct quality assurance (QA)	BIM
	audiovisual products and appropriate	ability to manage expectations	budgeting tools
	applications bid/tender process	ability to specify performance criteria	CAD
		ability to specify performance criteria	CAD
	client needs (e.g., existing infrastructure, standards, desired outcomes)	attention to detail	client technology standards
	construction contractual relationships	drafting skills	computer
	contract requirements industry best practices and standards	presentation skills professional communication skills	cut sheets and product specifications document management tools
	industry jargon and terminology (e.g., AV and allied trades)	technical writing skills	industry resources
	interaction between AV design and other systems		industry standards
	IT and networking local laws and regulations project budgeting		internet local and regional regulations PDF reader/writer
	project procurement process		







us	er experience design						
us	ser interface design						
D Deploy AV Designs							
Support project execution activities							
ac	ccessibility requirements	ability to collaborate with allied trades	accessibility standards				
	lied trades (e.g., mechanical, electrical, umbing, security, comms, HVAC, structural, BMS)	ability to document findings	BIM				
	udiovisual products and appropriate oplications	ability to interpret charts and schedules	computer				
	able management techniques	ability to read technical drawings and specifications	construction documents				
co co co	onstruction contractual relationships onstruction documentation process onstruction roles and relationships onstruction timelines and milestones dustry best practices and standards	attention to detail cable management skills customer service skills measurement skills observational skills	document management tools industry resources industry standards internet local and regional regulations				
	dustry jargon and terminology (e.g., AV and lied trades)	prioritization skills	measurement instruments				
ine	dustry products and trends	professional communication skills	measurement software				
	cal laws and regulations easurement conversions	technical writing skills	Personal Protective Equipment (PPE)				
pr	oject management structure						
2 Verify system per	formance						
ac	ccessibility requirements	ability to document findings	accessibility standards				
	udiovisual products and appropriate oplications	ability to interpret charts and schedules	BIM				
cc	able management techniques	ability to read technical drawings and specifications	computer				
	onstruction contractual relationships onstruction documentation process	attention to detail cable management skills	construction documents document management tools				
со	onstruction timelines and milestones	measurement skills	industry resources				
ine	dustry best practices and standards	observational skills	industry standards				





industry jargon a allied trades) local laws and re- measurement co		problem solving skills professional communication skills	internet local and regional regulations measurement instruments measurement software Personal Protective Equipment (PPE) specialty measurement instruments (e.g., sound level meters, light meter) specialty measurement software (e.g., RTA, network protocol analyzer, EDID analyzer)
3 Conduct project close out activ	rities (e.g., as-builts, system manu	uals, training, programing information)	system performance checklist or specifications
audiovisual productions construction conficention documents construction time industry best practindustry jargon a system operation	ucts and appropriate tractual relationships umentation process elines and milestones ctices and standards ind terminology (e.g., AV and tl learning techniques	ability to document findings ability to interpret charts and schedules ability to interpret field conditions and field mark ups ability to read technical drawings and specifications ability to train and educate end-users attention to detail customer service skills drafting skills presentation skills problem solving skills professional communication skills technical writing skills	BIM CAD computer construction documents contract document management tools documentation of record final code files industry resources industry standards internet project close-out documentation and field mark up scope of work