



PACE-VET · Sound Unit A Overview

Procedure Manual for Assessment

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Module	ESCO Title	ESCO Description	Skill-ID	ETTE	SKILLS	Criteria-ID	Criteria	Know-ID	KNOWLEDGE BLOCKS	Criteria-ID	Criteria	AA-ID	AUTONOMY / ATTITUDE	Criteria-ID	Criteria				
SA01	Fit up sound on stage	Set up, rig, connect, test and tune audio equipment on stage.	SA01.01		Read the documentation	01.11	Interpret scenographical and venue drawings	SKA01.01	Understanding of drawings, symbols and scales	SKA01.11	Knows drawings, symbols and scales used in sound design plans	AA.15	Awareness of rISKAs related to sound levels	AA.151	The ability to perceive and understand potential rISKAs related to raised high sound levels.				
						01.12	Grasp content and artistic specifications	SKA01.02	Rigging methods	SKA01.21	Knows different types of rigging methods and materials								
						01.13	Evaluate requirements for technical and scenic implementation, in particular design and artistic specifications	SKA01.03	Handling procedures for sound equipment	SKA01.31	Knows different types of sound equipment and their conditions for use								
						01.14	Compare sound concept with local conditions and setup	SKA01.04	Different types of signals	SKA01.41	Know different analogue devices, applications and data transmission								
			SA01.02		Collect the planned equipment	01.21	Collect the equipment as defined in the documentation	SKA01.05	Different types of cables and connectors	SKA01.42	Know different network devices, applications and data transmission (Ethernet networks: OPEN: Dante / EtherSound / CobraNet, CLOSED: Nexus, Rocknet and Optocore...)	AA.36	Respect for the artistic quality of the production	AA.361	The ability to value the artistic concept and vision of the production and act on it.				
						01.22	Check the integration of sound equipment (microphones, amplifiers, sound control desks, cables)			SKA01.51	Knows the differences in plug connections and plug devices in regard to the application								
			SA01.03		Fix and secure equipment according to documents	01.31	Attach and mount equipment according to the local standards and safety regulations	SKA02.06	Requirements of the production	SKA02.61	Knows how to translate and implement the content and artistic specifications using the equipment	AA.40	Respect for the timeline	AA.401	Honors colleagues in the team by exhibiting care, concern, or consideration for their needs or feelings.				
						01.32	Connect devices to one another using control cables												
			SA01.04		Pre-focus speakers	01.41	Pre-focus speakers to achieve the planned sound quality and specifications	SKA02.07	System settings	SKA02.61	Knows how to set system and accessory settings to achieve the desired sound qualities	AA.41	Safety awareness	AA.411	The ability to perceive risks and respond to them.				
			SA01.05		Connect equipment to electrical system	01.51	Connect amplifiers and/or active speakers using load cables												
			SA01.06		Connect equipment to amplifiers or stage box (if any)	01.61	Connect devices to amplifiers using control cables												
						01.71	Organises cables in a proper way												
						SA01.07		Fix and secure the connections	01.72	Secures cables as necessary									
SA02	Set up sound reinforcement system	Arrange an analogue sound reinforcement system in a live situation. MANY SKILLS / KNOWLEDGE BLOCKS ALSO IN SA01	SA02.01		Read the documentation	02.11	Specify lighting board and position, taking into account mounting options and safety provisions	SKA02.01	Understanding of drawings, symbols and scales	SKA02.11	Knows drawings, symbols and scales used in sound design plans	AA.15	Awareness of risks related to sound levels	AA.151	The ability to perceive and understand potential risks related to raised high sound levels.				
						02.12	Grasp content and artistic specifications	SKA02.02	Rigging methods	SKA02.21	Knows different types of rigging methods and materials								
						02.13	Evaluate requirements for technical and scenic implementation, in particular design and artistic specifications	SKA02.03	Handling procedures for sound equipment	SKA02.31	Knows different types of sound equipment and their conditions for use								
						02.14	Compare sound concept with local conditions and setup	SKA02.04	Different types of signals	SKA02.41	Know different analogue devices, applications and data transmission								
			SA02.02		Collect the planned equipment	02.21	Collect the equipment as defined in the documentation	SKA02.05	Different types of cables and connectors	SKA02.42	Know different network devices, applications and data transmission (Ethernet networks: OPEN: Dante / EtherSound / CobraNet, CLOSED: Nexus, Rocknet and Optocore...)	AA.41	Safety awareness	AA.411	The ability to perceive risks and respond to them.				
						02.22	Check the integration of sound equipment (microphones, amplifiers, sound control desks, cables)			SKA02.51	Knows the differences in plug connections and plug devices in regard to the application								
			SA02.03		Fix and secure equipment according to documents	02.31	Attach and mount equipment according to the local standards and safety regulations	SKA02.07	System settings	SKA02.61	Knows how to set system and accessory settings to achieve the desired sound qualities	AA.15	Awareness of risks related to sound levels	AA.151	The ability to perceive and understand potential risks related to raised high sound levels.				
						02.32	Connect devices to one another using control cables												
			SA02.04		Pre-focus speakers	02.41	Pre-focus speakers to achieve the planned sound quality and specifications	SKA02.07	System settings	SKA02.61	Knows how to set system and accessory settings to achieve the desired sound qualities	AA.22	Deals with pressure and setbacks	AA.221	Is prepared for the burden of physical or mental distress and negative experiences and things or situations that cannot be changed and acts accordingly.				
						02.51	Focus speakers to achieve the planned sound quality and specifications												
			SA2.05		Adjust the focusing of the speakers	02.62	Use accessories and sound console features to adjust the quality of the sound transmission	SKA02.07	System settings	SKA02.61	Knows how to set system and accessory settings to achieve the desired sound qualities	AA.37	Respect for the equipment	AA.371	The ability to treat the equipment with care				
			SA2.06		Adjust the settings such as delay lines, speaker EQ's, crossovers etc.	02.71	Connect amplifiers and/or active speakers using load cables												
			SA02.07		Connect equipment to electrical system	02.81	Connect devices to amplifiers using control cables												
			SA02.07		Connect equipment to amplifiers or stage box (if any)														
SA03	Perform technical sound check	Prepare and run a technical sound check before rehearsals or live shows. Check instrument setup and ensure correct functioning of the audio equipment. Anticipate possible technical problems during a live show.	SA03.01		Interpret the system layout	03.11	Understands the design and purpose of the sound system layout and documentation	SKA03.01	Understands documentation	SKA03.11	Knows the technical aspects of sound control, transmission and reproduction	AA.15	Awareness of risks related to sound levels	AA.151	The ability to perceive and understand potential risks related to raised high sound levels.				
						03.12	Can control and adjust system settings to achieve the required technical and artistic results			SKA03.12	Knows the different types of equipment and the related accessories								
			SA03.02		Adjust the placement of the equipment	03.21	Places devices, system parts, and components as needed to achieve the required technical and artistic results	SKA03.02	User level troubleshooting of sound equipment	SKA03.21	Knows how to locate problems and to alleviate them in sound equipment	AA.22	Deals with pressure and setbacks	AA.221	Is prepared for the burden of physical or mental distress and negative experiences and things or situations that cannot be changed and acts accordingly.				
			SA03.03		Check the connections • secure cables	03.31	Checks all cable connections for proper functioning of the system												
						03.32	Secures cables as necessary	SKA03.02	User level troubleshooting of sound equipment	SKA03.21	Knows how to locate problems and to alleviate them in sound equipment	AA.37	Respect for the equipment	AA.371	The ability to treat the equipment with care				
			SA03.04		Test the signals	03.41	Performs a test of the transmission of signals in the sound system												
			SA03.05		Test and prepare playback media	03.51	Prepares playback media and playback devices, connecting and integrating them to the system	SKA04.03	Your rights and obligations	SKA04.31	Knows the basic rights and obligations of employer and employee.	AA.13	Awareness of your own behaviour	AA.131	The ability to perceive and understand the way that you act as an individual in relation to others.				
						03.52	Runs a test of playback media and playback devices, ensuring their availability and performance												
			SA03.06		Locate, detect and solve problems	03.61	Identifies and locates possible errors or failures and is able to solve them												
HEALTH & SAFETY																			
SA04	Work with respect for own safety	Apply the safety rules according to training and instruction and based on a solid understanding of the prevention measures and risks to your own personal health and safety.	SA04.01	E01.01	Understand the risks in a performance environment and the mechanisms behind them	04.01	Can explain and react to risks in a performance environment	SKA04.01	Accident theory	SKA04.11	Understands the mechanism behind the occurrence of accidents.	AA.13	Awareness of your own behaviour	AA.131	The ability to perceive and understand the way that you act as an individual in relation to others.				
						04.02	Asks to lower flybar/truss	SKA04.02	Five steps to reduce risk	SKA04.21	Understands how to eliminate risks								
			SA04.02	E01.02	Understand your own position in the safety chain and act accordingly	04.02	Asks to raise flybar/truss	SKA04.03	Your rights and obligations	SKA04.31	Knows the basic rights and obligations of employer and employee.	AA.41	Safety awareness	AA.411	The ability to perceive risks and respond to them.				
						04.03	Carries ladder in appropriate way												
			SA04.03	E01.03	Work according to safety training and instructions	04.03	Places ladder in reach of work												
						04.03	Works according given safety instructions												
			SA04.04	E01.04	Protect oneself against hazards	04.04	Protects oneself against hazards	SKA04.03	Your rights and obligations	SKA04.31	Knows the basic rights and obligations of employer and employee.	AA.13	Awareness of your own behaviour	AA.131	The ability to perceive and understand the way that you act as an individual in relation to others.				
						04.04	Wears safety shoes												
			SA04.05	E01.05	Signal risks to a responsible person	04.05	Signals risks												
						04.05	Asks for help setting up the ladder												
SA05	Work safely with mobile electrical systems under supervision	Take the necessary precautions while providing temporary power distribution	SA05.01	E07.01	Read electrical diagrams and plans for mobile electrical installations	05.01	Reads electrical plan	SKA05.01	Basic electrical concepts and calculations	SKA05.11	Knows basic electrical concepts and calculations	AA.09	Awareness of others' behaviour	AA.091	The ability to perceive and understand the way that others act as an individual in relation to you.				
			SA05.02	E07.02	Calculate mono-phase electric loads	05.02	Ensures there is no power overload on a cable	SKA05.02	Electrical risks	SKA05.21	Knows electrical risks								
			SA05.03	E07.03	Provide power distribution for light, stage, sound, video and rigging purposes	05.03	Organises cables in a proper way	SKA05.03	Protection against electrical risks	SKA05.31	Knows how to protect against electrical risks	AA.11	Awareness of invisible risks	AA.111	The ability to perceive and understand less obvious or visible potential risks.				
						05.03	Keeps slack in cable	SKA05.04	Cables and connections	SKA05.41	Knows the key elements of cables: type, type of plug, cable material and classification, section of the cable, length, and working voltage								
			SA05.04	E07.04	Put cables, fuse boards and splitters in place, based on instructions	05.04	Connects sound equipment properly	SKA05.05	Body protection	SKA05.51	Knows the proper body protection for working with mobile electrical systems	AA.14	Awareness of raised levels of risk	AA.141	The ability to perceive and understand potential risks that may be greater (higher) than perceived.				
						05.04	Connects cables to power supply												
			SA05.05	E07.05	Connect, label, protect, and secure cables	05.04	Removes cables from power supply before disconnecting equipment	SKA05.06	Eye and face protection	SKA05.61	Knows the proper body protection for working with mobile electrical systems								
						05.05	Secures cables on truss or fly bar												
			SA05.06	E07.06	Perform visual inspections for electrical risks	05.05	Secures cables at end of truss or fly bar	SKA05.06	Eye and face protection	SKA05.61	Knows the proper body protection for working with mobile electrical systems								
						05.05	Secures electrical connections on fly bar or truss												
			SA05.07	E07.07	Troubleshoot basic problems: checking cables, connections, ...	05.05	Secures "pick" cables in relation to stage and equipment												
			SA05.08	E07.08	Repair mono-phase cables (checked by supervisor)	05.05	Secures cables at end of truss or fly bar												
			SA05.09	E07.09	Use appropriate tools and PPE's	05.05	Does not pull cables to cut tape	SKA05.06	Eye and face protection	SKA05.61	Knows the proper body protection for working with mobile electrical systems								
05.05	Ensures pens of plugs don't fall and hit the floor when taken down																		
SA05.10	E07.10	Act according to the agreed procedure in case of an electrical accident	05.05	Disconnects cables first															
			05.06	Checks cables before usage															
			05.07	Checks cables before usage															
			SA05.06	E07.06	Perform visual inspections for electrical risks	05.06	Checks cables before usage												
			SA05.07	E07.07	Troubleshoot basic problems: checking cables, connections, ...	05.07	Not applicable in the OSE assessment												
			SA05.08	E07.08	Repair mono-phase cables (checked by supervisor)														
			SA05.09	E07.09	Use appropriate tools and PPE's	05.09	Uses the appropriate tools												
			SA05.10	E07.10	Act according to the agreed procedure in case of an electrical accident		Not applicable in the OSE assessment												
SA06	Ensure safety of mobile electrical systems	Take the necessary precautions while providing temporary power distribution for performance and art facility purposes under supervision.	SA06.01		Put cables, fuse boards and splitters in place, based on written documentation	06.01	Puts cables, fuse boards and splitters in the proper place according to the documentation	SKA06.01	Basic electrical concepts and calculations	SKA06.11	Knows basic electrical concepts and calculations	AA.14	Awareness of raised levels of risk	AA.141	The ability to perceive and understand potential risks that may be greater (higher) than perceived.				

			SA06.02	Connect power (to main plug)	06.02	Connects power to the mains electrical supply	SKA06.02	Electrical Risks	SKA06.21	Knows electrical risks					
			SA06.03	Organize distribution according the needs and requirements of the equipment	06.03	Organizes the distribution of power cables according to the needs and requirements of the equipment	SKA06.03	Protection against electrical risks	SKA06.31	Knows how to protect against electrical risks					
			SA06.04	Calculate the power needs to avoid overloads	06.04	Calculates the power needs before connection to avoid overloads	SKA06.04	Cables and connections	SKA06.41	Knows the key elements of cables: type, type of plug, cable material and classification, section of the cable, length, and working voltage					
									SKA06.42	Knows how to pull and lay cables and fix and secure connections					
							SKA06.05	Body protection	SKA06.51	Knows the proper body protection for working with mobile electrical systems					
							SKA06.06	Eye and face protection	SKA06.61	Knows the proper eye and face protection for working with mobile electrical systems					
							SKA06.07	Know electrical regulations and code of practice	SKA06.71	Knows the local safety regulations and requirements for electrical equipment					
							SKA06.08	Know the importance of a equipotential connections	SKA06.81	Understands electrical theory and safety requirements regarding equipotential bonding					
SA07	Work ergonomically	Apply ergonomic principles in the organisation of the workplace and while manually handling equipment and materials.	SA07.01	E03.01	Identify ergonomic risks	07.01	Checks weight of cases	SKA07.01	Risks as a result of manual handling	SKA07.11	Can identify and assess ergonomoic risks	AA.13	Awareness of your own behaviour	AA.131	The ability to perceive and understand the way that you act as an individual in relation to others.
ETTE 03			SA07.02	E03.02	Organise workplace ergonomically	07.02	Puts cases and equipment directly in the right place	SKA07.02	Ergonomical methods	SKA07.21	Knows the specific lifting approaches for manual handling				
						07.02	Organises cases for easy access	SA07.03	Equipment for lifting, carrying or moving	SKA07.31	Knows the specific equipment and their use cases for lifting, carrying or moving.				
			SA07.03	E03.03	Apply the ergonomic principles and methods while lifting, carrying or moving heavy or unpractical loads	07.02	Positions cases in an efficient and ergonomic way								
						07.03	Lifts close to body								
						07.03	Carries sound equipment ergonomically								
						07.03	Puts cables directly in cases								
						07.03	Carries lighting equipment directly to cases								
						07.03	Works ergonomic								
						07.03	Works efficient								
			SA07.04	E03.04	Use the right equipment when lifting, carrying or moving heavy objects										
			SA07.05	E03.05	Ask for help for tasks you can't carry out on your own	07.05	Asks for help								
			SA07.06	E03.06	Communicate with colleagues while lifting, carrying or moving objects	07.06	Communicates with active assessor when lifting								
SA08	Follow safety procedures when working at heights	Take necessary precautions and follow a set of measures that assess, prevent and tackle risks when working at heights. Prevent endangering people working under these structures.	SA08.01	E06.01	Select and use the appropriate equipment to go to the high working post	08.01	Uses ladder	LKA08.01	Ladders	LKA08.11	Knows the basic rules when working with ladders	AA.41	Safety awareness	AA.411	The ability to perceive risks and respond to them.
ETTE 06	Work safely at heights	NOT ALL COMPETENCES	SA08.02	E06.02	Identify / spot environmental influences and changes that affect the safe use (weather, rake, floor stability...)	08.02	Not applicable in this assessment	LKA08.02	Mobile tower scaffold		Not applicable in this assessment				
			SA08.03	E06.03	Mount and use the equipment according to the safety regulations and instructions	08.03	Places ladder in reach of work	LKA08.03	Mobile elevating work platform		Not applicable in this assessment				
						08.03	Asks active assessor to hold the ladder	LKA08.04	Fall protection		Not applicable in this assessment				
						08.03	Climbs ladder in the proper way								
						08.03	Works with face to ladder, tips of foot to ladder (not backwards)								
						08.03	Moves ladder when objects are out of reach								
			SA08.04	E06.04	Visually inspect the equipment	08.04	Does a visual inspection of the equipment								
			SA08.05	E06.05	Apply the appropriate collective protection	08.04	Checks ladder before use								
			SA08.06	E06.06	Use the appropriate personal protection equipment	08.05	Applies appropriate collective protection								
			SA08.07	E06.07	Ensure no objects can fall during activity	08.06	Wears hard hat								
			SA08.08	E06.08	Secure small tools and equipment	08.07	Checks for objects in pockets								
			SA08.09	E06.09	Close off underlying areas	08.08	Secures tools used								
			SA08.10	E06.10	Ensure underlying work area is free	08.09	Secures area below								
						08.10	Ensures space under action is free								
						08.10	Checks above area is free before moving upwards								
			SA08.11	E06.11	Communicate with colleagues while working at height	08.11	Warns colleagues								
						08.11	Communicates with active assessor								
	NO ESCO COMPETENCE:														
SA09	Get in and get out performance equipment	Getting in and getting out scenery, sound, light and video equipment on the stage and storing environment	SA09.01		Handle equipment safely	09.01	Transports devices, system parts, components, tools and other work equipment protecting them from damage	SKA09.01	Understands the value of the equipment	SKA09.11	Knows the value of the sound equipment being used	AA.04	Accuracy	AA.041	The ability to be precise and exact.
			SA09.02		Is able to recognise possible damage	09.02	Checks equipment and all cable connections for proper functioning of the system	SKA09.02	Equipment know-how	SKA09.21	Knows the different types of sound equipment and the related accessories and how they should be handled	AA.26	Feels responsible	AA.261	Is reliable as the recipient of another's trust or confidence.
			SA09.03		Communicate about damage to the appropriate person	09.03	Reports any damage to the appropriate person			SKA09.22	Knows the different types of equipment and the related accessories for getting in and out of venues	AA.37	Respect for the equipment	AA.371	The ability to treat the equipment with care.
			SA09.04		Is able to use the proper gateways and routes	09.04	Uses gateways and routes in relation to the equipment and processes to be done	SKA09.03	Knowledge of the logistical environment	SKA09.31	Knows the logistical environment and can plan and execute the movement of equipment accordingly	AA.46	Works under supervision	AA.461	Works according to instructions given by a supervisor.
			SA09.05		Uses the right equipment to transfer items	09.05	Uses the proper equipment when transferring items that cannot be handled manually								