



PACE-VET · Lighting Unit A Overview

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															Assessment Methods USED May 2024															
UNIT Label	Field	Field of competence	Sub-field of competence	Place in the process	Level	Examiner	PROJECT ID	Assessment/Assignment Group	ESCO Concept/URI	ESCO Title	ESCO Description	SKILLS	KNOWLEDGE	AUTONOMY / ATTITUDE	Structured Portfolio - S = Supportive	Structured Portfolio = PACE-VET APP	Observation - Simulated Environment	Observation - On Site	Test Bed Exercise	Role Play	Criteria Based Interview - S = Supportive	Written Test (Multiple Choice)	Written Test (Open Answer) K = Knowledge	Oral Examination K = Knowledge	Pitch / Presentation / Gaming					
															POR	POR	OSE	OOS	PBE	RPL	CBI	TMC	TOA	ORE	PPG					
LA01	Lighting	01	00	20	04	10	PV	A	LINK	Read lighting plans	Interpret the instructions on the light plan to determine the lighting equipment needed and the right placing.	LA01.01 Read the symbols for fixtures and accessories on a layout/in a plan LA01.02 Read plots with patch, rig and equipment lists LA01.03 Work in scale	LKA01.01 Different types of fixtures, their symbols, properties and applications LKA01.02 Line, symbol and layer systems for building and scenographic drawings LKA01.03 Different types of locations and challenges with the stage environment	AA.03 Able to act on own initiative AA.04 Accuracy AA.25 Awareness of cost-effectiveness	S							S								
LA02	Lighting	01	00	20	04	25	PV	A	LINK	Set up light board	Install, connect and try out lighting board/console in a live performance environment.	LA02.01 Place and secure the light console LA02.02 Connect to the power supply LA02.03 Connect to the control system LA02.04 Check all the operating functions	LKA02.01 Read technical drawings and written information LKA02.02 Use of different types of consoles	AA.33 Problem-solving approach	S							S								
LA03	Lighting	01	00	20	04	29	PV	A	LINK	Install lighting	Set up, connect and test lighting equipment in a live performance environment.	LA03.01 Read the light plot and documentation LA03.02 Collect the planned equipment LA03.03 Handle equipment with care LA03.04 Fix and secure equipment (according to standards) LA03.05 Fit up the accessories LA03.06 Connect carefully and efficiently LA03.07 Mount lighting instruments securely LA03.08 Check that the lighting instrument is operational LA03.09 Pre-focus lighting instruments	LKA03.01 Understands drawings, symbols and scales LKA03.02 Understands different types of equipment and the related accessories LKA03.03 Understands different types of cables and connectors LKA03.04 Understands different types of rigging methods and materials LKA03.05 Understands safety requirements	AA.15 Awareness of raised levels of risk AA.37 Respect for the equipment AA.41 Safety awareness	S							S								
LA04	Lighting	01	00	20	04	26	PV	B	LINK	Distribute control signals	Circulate control signals between light boards, dimmers and other lighting equipment. Control systems can be either DMX or network based.	LA04.01 Interpret technical drawings, schemes and written documentation LA04.02 Place control cables LA04.03 Place, address and set-up mergers, splitters and amplifiers LA04.04 Test control signals	LKA04.01 Symbols and drawing methods for technical drawings, schemes and written documentation LKA04.02 Use of operating protocols, consoles, dimmers and lighting equipment	AA.04 Accuracy AA.33 Problem-solving approach	S								S							
LA05	Lighting	01	00	20	04	30	PV	B	LINK	Focus lighting equipment	Set already installed conventional lighting equipment, based on directions and information from somebody on the floor.	LA05.01 Point the fixture LA05.02 Focus the fixture LA05.03 Adjust accessories LA05.04 Fix and secure the position	LKA05.01 Understands of optics involved in non or single lens equipment	AA.04 Accuracy	S								S							
LA06	Lighting	00	00	50	03	10	PV	C	LINK	De-rig electronic equipment	Remove and store various types of electronic equipment safely after use.	LA06.01 Understand the specific equipment specifications LA06.02 Power off and disconnect in a safe manner LA06.03 Pack equipment in an efficient and safe manner LA06.04 Ready the equipment for transportation	LKA06.01 Different work and equipment contexts in the event and live performance industry LKA06.02 Necessary equipment packing procedures LKA06.03 Principles of storage packing and logistics in the event and live performance industry	AA.37 Respect for the equipment AA.41 Safety awareness	S								S							
LA07	Lighting	15	20	50	04	10	PV	C	LINK	Pack electronic equipment	Safely pack sensitive electronic equipment for storage and transport.	LA07.01 Pack cables neat and correct LA07.02 Securing and packing equipment for transportation LA07.03 Work safe	LKA07.01 Understand the value of equipment	AA.37 Respect for the equipment	S								S							
HEALTH & SAFETY																														

LA08	Health & Safety	60	20	00	03	01	ET	A B C	LINK	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.	LA08.01 Understand the risks in a performance environment and the mechanisms behind them. LA08.02 Understand your own position in the safety chain and act accordingly LA08.03 Work according to safety training and instructions LA08.04 Protect oneself against hazards. LA08.05 Signal risks to a responsible person	LKA08.01 Accident theory LKA08.02 Five steps to reduce risk LKA08.03 Your rights and obligations	AA.13 Awareness of your own behaviour AA.41 Safety awareness	\$						\$			
LA09	Health & Safety	60	20	00	03	03	ET	A B C	LINK	Work ergonomically	Apply ergonomics principles in the organisation of the workplace and while manually handling equipment and materials.	LA09.01 Identify ergonomic risks LA09.02 Organise workplace ergonomically LA09.03 Apply the ergonomic principles and methods while lifting, carrying or moving heavy or unpractical loads LA09.04 Use the right equipment when lifting, carrying or moving heavy objects LA09.05 Ask for help for tasks you can't carry out on your own LA09.06 Communicate with colleagues while lifting, carrying or moving objects	LKA09.01 Risks as result of manual handling LKA09.02 Ergonomical methods LKA09.03 Equipment for lifting, carrying or moving	AA.12 Awareness of long term impact on personal health	\$						\$			
LA10	Health & Safety	60	45	00	03	07	ET	A B C	LINK	Work safely with mobile electrical systems under supervision	Take the necessary precautions while providing temporary power distribution for performance and art facility purposes under supervision.	LA10.01 Read Electrical diagrams and plans for mobile electrical installations LA10.02 Calculate mono-phase electric loads LA10.03 Provide power distribution for light, stage, sound, video and rigging purposes LA10.04 Put cables, fuse boards and splitters in place, based on instructions LA10.05 Connect, label, protect, and secure cables LA10.06 Perform visual inspections for electrical risks LA10.07 Troubleshoot basic problems: checking cables, connections, ... LA10.08 Repair mono-phase cables (checked by supervisor) LA10.09 Use appropriate tools and PPE's LA10.10 Act according to the agreed procedure in case of an electrical accident	LKA10.01 Basic electrical concepts and calculations LKA10.02 Electrical Risks LKA10.03 Protection against electrical risks LKA10.04 Cables and connections LKA10.05 Body protection LKA10.06 Eye and face protection	AA.09 Awareness of others' behaviour AA.11 Awareness of invisible risks	\$						\$			
LA11	Health & Safety	60	00	00	03	06	ET	B	LINK	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.	LA11.01 Select and use the appropriate equipment to go to the high working post LA11.02 Identify / spot environmental influences and changes that affect the safe use (weather, rake, floor stability...) LA11.03 Ensure underlying work area is free LA11.04 Mount and use the equipment according to the safety regulations and instructions. LA11.05 Visually inspect the equipment LA11.06 Apply the appropriate collective protection LA11.07 Use the appropriate personal protection equipment LA11.08 Ensure no objects can fall during activity LA11.09 Secure small tools and equipment LA11.10 Close off underlying areas LA11.11 Communicate with colleagues while working at height	LKA11.01 Ladders LKA11.02 Mobile tower scaffold LKA11.03 Mobile elevating work platform LKA11.04 Fall protection	AA.41 Safety awareness	\$						\$			

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
LA01	Read lighting plans	Interpret the instructions on the light plan to determine the lighting equipment needed and the right placing.	LA01.01		Read the symbols for fixtures and accessories on a layout/in a plan	01.01	Interprets scenographical and venue drawings	LKA01.01	Different types of fixtures, their symbols, properties and applications	LKA01.11	Knows drawings, symbols and scales used in light plans	AA.03	Acts on own initiative	AA.031	Recognizes actions needed without being prompted by others
						01.01	Grasps content and artistic specifications			LKA01.12	Knows different types of equipment, their symbols, properties and application			AA.032	Decides to be engaged without being prompted by others
						01.01	Evaluates requirements for technical and scenic implementation, in particular design and artistic specifications	LKA01.02	Line, symbol and layer systems for building and scenographic drawings	LKA01.21	Knows different types of equipment, their symbols, properties and application	AA.04	Accuracy	AA.041	Is able to determine how close a given set of observations or evaluations are to their true value
						01.01	Compares lighting concept with local condions and setup	LKA01.03	Different types of locations and challenges with the stage environment	LKA01.31	Knows lighting design approaches (e.g. light directions, 3-point lighting)	AA.25	Awareness of cost-effectiveness	AA.251	The ability to balance the relative costs against the outcomes of different courses of action to achieve the best cost-benefit ratio for an effective result.
			LA01.02	Read plots with patch, rig and equipment lists		01.02	Checks the integration of lighting equipment (lighting instruments, dimmers, lighting control desks)			LKA01.32	Knows venue possibilities and limitations				
						01.02	Specifies lighting devices and positions, taking into account mounting options, radiating properties and focussing options								
			LA01.03	Work in scale		01.03	Grasps scale of drawing and dimensioning								
LA02	Set up light board	Install, connect and try out lighting board/console in a live performance environment.	LA02.01	Place and secure the light console		02.01	Specifies lighting board and position, taking into account mounting options and safety provisions	LKA02.01	Read technical drawings and written information	LKA02.11	Know the differences in plug connections and plug devices in regard to the application	AA.33	Problem-solving approach	AA.331	The ability to overcome obstacles.
			LA02.02		Connect to the power supply	02.02	Takes into account the requirements for safe operation	LKA02.02	Use of different types of consoles	LKA02.12	Know the requirements for the assembly of temporary electrical distribution systems				
						02.02	Carries out a visual inspection of equipment and devices in temporary electrical distribution systems, in particular detection and assessment of damage and compliance with safety requirements			LKA02.21	Know the use of different types of light consoles				
						02.02	Connects devices to one another and to dimmers using load cables			LKA02.22	Know different network devices, applications and data transmission (DMX; ADM; ArtNet; sACN; ACN)				
				Connect to the control system		02.02	Identifies possible errors or failures			LKA02.23	Knows the safety requirements for electrical equipment				
			LA02.03			02.03	Connects devices to one another and to dimmers using control cables								
			LA02.04	Check all the operating functions		02.03	Identifies possible errors or failures								
LA03	Install lighting	Set up, connect and test lighting equipment in a live performance environment.	LA03.01	Read the light plot and documentation		03.01	Reads and understands the light plot and documentation	LKA03.01	Understands drawings, symbols and scales	LKA03.11	Knows drawings, symbols and scales used in light plans	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.
			LA03.02		Collect the planned equipment	03.02	Collects equipment according to the lighting plan	LKA03.02	Understands different types of equipment and the related accessories	LKA03.21	Knows the different types of equipment and the related accessories	AA.37	Respect for the equipment	AA.371	The ability to treat the equipment with care
			LA03.03		Handle equipment with care	03.03	Transports devices, system parts, components, tools and other work equipment to protect them from damage	LKA03.03	Understands different types of cables and connectors	LKA03.31	Knows different types of cables and connectors	AA.41	Safety awareness	AA.411	The ability to perceive risks and respond to them.
			LA03.04		Fix and secure equipment (according to standards)	03.04	Attaches and sets up equipment according to the local standards and safety regulations	LKA03.04	Understands different types of rigging methods and materials	LKA03.41	Knows different types of rigging methods and materials				
			LA03.05	Fit up the accessories		03.05	Attaches and sets up accessories according to the local standards and safety regulations	LKA03.05	Understands safety requirements	LKA03.51	Knows local safety requirements				
			LA03.06	Connect carefully and efficiently		03.06	Connects devices to one another and to dimmers using load and control cables								
			LA03.07	Mount lighting instruments securely		03.07	Mounts equipment according to the local standards and safety regulations								
LA04	Distribute control signals	Circulate control signals between light boards, dimmers and other lighting equipment. Control systems can be either DMX or network based.	LA04.01	Interpret technical drawings, schemes and written documentation		04.01	Specifies control signals	LKA04.01	Symbols and drawing methods for technical drawings, schemes and written documentation	LKA04.11	Knows drawings, symbols and scales used in light plans	AA.04	Accuracy	AA.041	The ability to be precise and exact.
						04.01	Defines network infrastructure (e.g. routers, switches, access points)	LKA04.02	Use of operating protocols, consoles, dimmers and lighting equipment	LKA04.21	Know different network devices, applications and data transmission (DMX; ADM; ArtNet; sACN; ACN)	AA.33	Problem-solving approach	AA.331	The ability to overcome obstacles.
			LA04.02		Place control cables	04.02	Connects devices to one another and to dimmers using control cables								
			LA04.03		Place, address and set-up mergers, splitters and amplifiers	04.03	Applies and patches lighting instruments in the board								
				Test control signals		04.03	Configures network devices according to application and data transmission (DMX; ADM; ArtNet; sACN; ACN)								
						04.03	Programms lighting instruments and lighting desks								
			LA04.04			04.04	Checks the function of the control signals								
LA05	Focus lighting equipment	Set already installed conventional lighting equipment, based on directions and information from somebody on the floor.	LA05.01	Point the fixture		05.01	Uses the light plan to position light beam from lighting instrument	LKA05.01	Understands optics involved in non or single lens equipment	LKA05.11	Knows of optics involved in non or single lens equipment	AA.04	Accuracy	AA.041	The ability to be precise and exact.
			LA05.02		Focus the fixture	05.02	Uses the adjustment possibilities of the lighting instrument to meet lighting requirements (focus)			LKA05.12	Knows about focus adjustment possibilities of different lighting equipment				
			LA05.03		Adjust accessories	05.03	Uses the adjustment possibilities of the lighting instrument accessories to meet lighting requirements (focus)								
			LA05.04		Fix and secure the position	05.04	Securely mounts equipment according to the local standards and safety regulations								
LA06	De-rig electronic equipment	Remove and store various types of electronic equipment safely after use.	LA06.01	Understand the specific equipment specifications		06.01	Uses specific equipment specifications when removing and storing	LKA06.01	Different work and equipment contexts in the event and live performance industry	LKA06.11	Knows of different work and equipment contexts in the event and live performance industries	AA.37	Respect for the equipment	AA.371	The ability to treat the equipment with care
			LA06.02		Power off and disconnect in a safe manner	06.02	Turns power off and disconnects all equipment before de-rigging	LKA06.02	Necessary equipment packing procedures	LKA06.21	Knows the different equipment packing procedures	AA.41	Safety awareness	AA.411	The ability to perceive risks and respond to them.
			LA06.03		Pack equipment in an efficient and safe manner	06.03	Packs equipment in an efficient and safe manner	LKA06.03	Principles of storage packing and logistics in the event and live performance industry	LKA06.31	Knows the principles of packing and logistics in the event and live performance industries				
			LA06.04		Ready the equipment for transportation	06.04	Readies the equipment for transportation regarding equipment and packing specifications								
LA07	Pack electronic equipment	Safely pack sensitive electronic equipment for storage and transport.	LA07.01	Pack cables neat and correct		07.01	Packs cables neat and correct	LKA07.01	Understand the value of equipment	LKA07.11	Knows about the value of equipment used and proper packing and storage to retain value	AA.37	Respect for the equipment	AA.371	The ability to treat the equipment with care
			LA07.02		Securing and packing equipment for transportation	07.02	Secures and packs equipment for transportation								
			LA07.03		Work safe	07.03	Works safely								
HEALTH & SAFETY															
LA08	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.	LA08.01	E01.01	Understand the risks in a performance environment and the mechanisms behind them	08.01	Can explain and react to risks in a performance environment	LKA08.01	Accident theory	LKA08.11	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.
	ETTE 01		LA08.02	E01.02	Understand your own position in the safety chain and act accordingly	08.02	Asks to lower flybar/truss	LKA08.02	Five steps to reduce risk	LKA08.21	Understands how to eliminate risks	AA.41	Safety awareness	AA.411	The ability to perceive risks and respond to them.
			LA08.03	E01.03	Work according to safety training and instructions	08.02	Asks to raise flybar/truss			LKA08.22	Knows the use of collective protection				
						08.03	Carries ladder in aproprate way			LKA08.23	Knows the use of individual protection				
						08.03	Places ladder in reach of work			LKA08.24	Knows about training to reduce risks				
			LA08.04	E01.04	Protect oneseff against hazards	08.03	Works according given safety instructions			LKA08.25	Knows about the importance of Information, notifications and warnings				
						08.04	Protects oneseff against hazards	LKA08.03	Your rights and obligations	LKA08.31	Knows the basic rights and obligations of employer and employee.				
LA09	Work ergonomically	Apply ergonomic principles in the organisation of the workplace and while manually handling equipment and materials.	LA09.01	E03.01	Identify ergonomic risks	09.01	Checks weight of cases	LKA09.01	Risks as a result of manual handling	LKA09.11	Can identify and assess ergonomioic 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		LA09.02	E03.02	Organise workplace ergonomically	09.02	Puts cases and equipment directly in the right place	LKA09.02	Ergonomical methods	LKA09.21	Knows the specific lifting approaches for manual handling				
						09.02	Organises cases for easy access	LKA09.03	Equipment for lifting, carrying or moving	LKA09.31	Knows the specific equipment and their use cases for lifting, carrying or moving.				
			LA09.03	E03.03	Apply the ergonomic principles and methods while lifting, carrying or moving heavy or unpractical loads	09.02	Positions cases in an efficient and ergonomical way								
						09.03	Lifts close to body								
						09.03	Carries lighting equipment ergonomically								

				09.03	Puts cables directly in cases				
				09.03	Carries lighting equipment directly to cases				
				09.03	Works ergonomic				
				09.03	Works efficient				
			LA09.04	E03.04	Use the right equipment when lifting, carrying or moving heavy objects				
			LA09.05	E03.05	Ask for help for tasks you can't carry out on your own	09.05	Asks for help		
			LA09.06	E03.06	Communicate with colleagues while lifting, carrying or moving objects	09.06	Communicates with active assessor when lifting		
LA10	Work safely with mobile electrical systems under supervision	Take the necessary precautions while providing temporary power distribution for performance and art facility purposes under supervision.	LA10.01	E07.01	Read electrical diagrams and plans for mobile electrical installations	10.01	Reads electrical plan	LKA10.01	Basic electrical concepts and calculations
ETTE 07			LA10.02	E07.02	Calculate mono-phase electric loads	10.02	Ensures there is no power overload on a cable	LKA10.02	Electrical Risks
			LA10.03	E07.03	Provide power distribution for light, stage, sound, video and rigging purposes	10.03	Organises cables in a proper way	LKA10.03	Protection against electrical risks
						10.03	Keeps slack in cable	LKA10.04	Cables and connections
			LA10.04	E07.04	Put cables, fuse boards and splitters in place, based on instructions	10.04	Connects lighting instruments properly	LKA10.41	Knows the key elements of cables: type, type of plug, cable material and classification, section of the cable, length, and working voltage
						10.04	Connects cables to power supply	LKA10.42	Knows how to pull and lay cables and fix and secure connections
						10.04	Removes cables from power supply before disconnecting equipment	LKA10.51	Knows the proper body protection for working with mobile electrical systems
			LA10.05	E07.05	Connect, label, protect, and secure cables	10.05	Secures cables on truss or fly bar	LKA10.52	Knows the proper eye and face protection for working with mobile electrical systems
						10.05	Secures cables at end of truss or fly bar		
						10.05	Secures electrical connections on fly bar or truss		
						10.05	Secures "pick" cables in relation to stage and equipment		
						10.05	Secures cables at end of truss or fly bar		
						10.05	Does not pull cables to cut tape		
						10.05	Ensures pens of plugs don't fall and hit the floor when taken down		
						10.05	Disconnects cables first		
			LA10.06	E07.06	Perform visual inspections for electrical risks	10.06	Checks cables before usage		
			LA10.07	E07.07	Troubleshoot basic problems: checking cables, connections, ...				
			LA10.08	E07.08	Repair mono-phase cables (checked by supervisor)				
			LA10.09	E07.09	Use appropriate tools and PPE's				
			LA10.10	E07.10	Act according to the agreed procedure in case of an electrical accident				
LA11	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.	LA11.01	E06.01	Select and use the appropriate equipment to go to the high working post	11.01	Uses ladder	LKA11.01	Ladders
ETTE 06	Work safely at heights	NOT ALL COMPETENCES	LA11.02	E06.02	Identify / spot environmental influences and changes that affect the safe use (weather, rake, floor stability...)	11.02	Not applicable in this assessment	LKA11.02	Mobile tower scaffold
			LA11.03	E06.03	Mount and use the equipment according to the safety regulations and instructions	11.03	Places ladder in reach of work	LKA11.03	Mobile elevating work platform
						11.03	Asks active assessor to hold the ladder	LKA11.04	Fall protection
						11.03	Climbs ladder in the proper way		
						11.03	Works with face to ladder, tips of foot to ladder (not backwards)		
						11.03	Moves ladder when objects are out of reach		
			LA11.04	E06.04	Visually inspect the equipment	11.04	Does a visual inspection of the equipment		
						11.04	Checks ladder before use		
			LA11.05	E06.05	Apply the appropriate collective protection	11.05	Applies the appropriate collective protection		
			LA11.06	E06.06	Use the appropriate personal protection equipment	11.06	Wears hard hat		
			LA11.07	E06.07	Ensure no objects can fall during activity	11.07	Checks for objects in pockets		
			LA11.08	E06.08	Secure small tools and equipment	11.08	Secures tools used		
			LA11.09	E06.09	Close off underlying areas	11.09	Secures area below		
			LA11.10	E06.10	Ensure underlying work area is free	11.10	Ensures space under action is free		
						11.10	Checks above area is free before moving upwards		
			LA11.11	E06.11	Communicate with colleagues while working at height	11.11	Warns colleagues		
						11.11	Communicates with active assessor		