

ECVAET 3

The European master craftsperson education and training in event technology



ECVAET 3 - Safety matrix

The present safety matrix for event technology shows the context between the competencies of the European Master Craftspersons for Event Technology and the accompanying safety aspects. It has been introduced as an instrument in the previous, first ECVAET projects and detailed, expanded and revised for this project.

Competence areas

The matrix is structured in the essentially typical competence areas for events and represents the safety- relevant parameters for these areas. In the first columns of the matrix and for the individual area to be considered, relevant procedures, objects and processes and related aspects are in focus. In each case, examples, annotations and influences were identified for clarification which serve as an explanation and make no claim to completeness.

Prevention, safety, protection of ...

The second area of the matrix considers the objects of protection affected by the respective operations. Persons (like e.g. visitors, stakeholders or employees), or property (like e.g. buildings or material) can be affected. Moreover, effects on the environment can also emanate from the related processes. Therefore, the presentation was chosen so that not all basically existing contexts are shown individually, but only those which accompany the typical functions and responsibilities of a Master Craftsperson of Event Technology.

Differentiated is thereby the competence development stage required for these tasks. The European Master Craftsperson of Event Technology must, however, possess all listed competencies.

Assuming, that a basic training on EQF level 4 in event technology had been completed before qualifying as a Master Craftsperson of Event Technology (e.g. professional education and training as "event technician"), some of these required competencies had already been acquired in advance. They are presented here in normal print. The competencies which must be newly imparted to a master craftsperson in addition to the vocational education and training are all highlighted in bold print.

manage/ control	He/she leads the procedural implementation in the context of the overall coordination and controls the compliance of (legal) requirements.
self-perform	He/she has profound professional knowledge of the requirements, independently develops professionally detailed alternative solutions and puts these into practice.
know	He/she knows the (legal) basics for this field and has a basic substantial knowledge of the requirements.

Carrying out and controlling a risk assessment for the number of visitors and visitor flows is generally necessary, however, this task is usually not being realized by a Master Craftsperson of Event Technology but by other involved persons. He has just to consider the basics here. He is active in other areas like e.g. managing and controlling, but the operation is reserved to professionals and specialists.

Hazard types

Determined and presented here are the hazard types of respective operations, objects and processes which come into effect in the competence area. In case of errors, very diverse effects like accident (long-term) damage to health, fire outbreak or other damage to property are expected. Since these possible effects exclusively depend on the source of hazards and not the competence of the master craftsperson, no further differentiation of competence development steps was made.



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				PREVENTION, SAFETY, PROTECTION OF ...							TYPES OF HAZARDS (failure to comply with safety rules and regulations)								
				PERSONS			OBJECTS			ENVIRONMENT									
Competence area	Procedures, objects, processes	Aspects	Examples, annotations, influence	Visitors	Guests	Artists	Stakeholders	Employees	Building	Devices	Equipment	Materials	Systems	Accident	Health hazards	Fire	Damage to property		
				Survey															
A Project management Plan, organise and carry out events	Safety organisation	Competence, Authority to issue instructions Responsibilities	Creation of organisation charts, allocation of competence	lead/control	✓	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control						
			self-perform	✓	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	🔴	🔴	🔴	🔴	
			know	✓	know	know	know	know	know	know	know	know	know	know					
		Clarification of the internal and external interfaces	Coordinate internal and external involved persons, e.g. service provider, caterer, exhibitors, involved authorities, non-participants (e.g. neighbours)	lead/control	✓	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control				
			self-perform	✓	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	🔴	🔴	🔴	🔴
			know	✓	know	know	know	know	know	know	know	know	know	know					
		Coordination of safety-related tasks	Reporting channels, inspections and approvals, remove safety nuisances, implement and push through the requirements	lead/control	✓	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control				
			self-perform	✓	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	🔴	🔴	🔴	🔴
			know	✓	know	know	know	know	know	know	know	know	know	know					
	Safety culture	Allocating sufficient resources for safety equipment, concepts, personnel and training	Work clothes, house rules, continuing education possibilities, exams	lead/control	✓			lead/control	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control					
			self-perform	✓			self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	🔴	🔴	🔴	🔴	
			know	✓	know	know	know	know	know	know	know	know	know	know					
		Allocating sufficient time for safety-related tasks	Consider the time for instructions and preparations	lead/control	✓	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control				
			self-perform	✓	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	🔴	🔴	🔴	🔴
			know	✓	know	know	know	know	know	know	know	know	know	know					
	Integration of safety and workflow	Creation of work instructions and operating instructions, sensitise the staff	lead/control	✓	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control					
		self-perform	✓	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	🔴	🔴	🔴	🔴	
		know	✓	know	know	know	know	know	know	know	know	know	know						
Safety inspections and checks	Determination of competence, carrying out of inspections	Carry out inspections, consult external experts, engage competent persons	lead/control	✓	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control	lead/control						
		self-perform	✓	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	self-perform	🔴	🔴	🔴	🔴		
	Time management, process planning,	Control of the working hours and breaks, sufficient time for inspections and tests, safer flow of work and event	lead/control	✓	lead/control	lead/control	lead/control				lead/control								
		self-perform	✓	self-perform	self-perform	self-perform				self-perform				🔴	🔴	🔴	🔴		
Assessment of risks and hazards	Number and flow of visitors	Barriers, sanitary facilities, floor space inspections, protection areas		✓															
		know	✓	know	know	know	know	know	know	know	know	know							
	Behaviour of visitors	Consumption of beverages, drug consumption, garbage, aggressions, hysteria		✓							lead/control								
		know	✓	know	know	know	know	know	know	know	know	know	know						

Competence area	Procedures, objects, processes	Aspects	Examples, annotations, influence	Visitors	Survey	Artists	Employees	Building	Devices	Equipment	Materials	Systems	Accident	Health hazards	Fire	Damage to property	
				Guests	Stakeholders												
		Programme & behaviour of performers	Consumption of beverages, drug consumption, aggressiveness, scenic flow hazards	lead/control	✓	lead/control	lead/control			lead/control			•		•	•	
		know	✓	know	know	know	know	know	know								
	Involved persons (Workers, subcontractors/Arbeitnehmer, Nachunternehmer)	Determine hazards and derive measures, conduct monitoring of effectiveness	lead/control		lead/control	lead/control				lead/control				•	•	•	•
		self-perform		self-perform	self-perform												
	Emergency organisation - emergency concept	Accident - first aid	Reporting channels, defibrillator, access to medical service, safeguarding	lead/control	✓	lead/control	lead/control							•	•		
		know	✓	know	know	know	know	know	know	know							
		Measures	Weather, attack threats, technical average concepts											•		•	•
		know	✓	know	know	know	know	know	know	know							
		Attack threats/assassination threats	Bomb threats, raid											•		•	•
		know	✓	know	know	know	know	know	know	know							
	Fire fighting, fire	Fire fighting	Fire fighting			lead/control	lead/control							•	•	•	•
		know	✓	know	know	know	know	know	know	know							
	Cooperation with authorities and organisations with safety-related tasks.	e.g. Construction supervision and regulatory authorities, medical service, rescue team, police, fire brigade	lead/control	✓	lead/control	lead/control										•	•
		know	✓	know	know	know	know	know	know	know							
	Public safety and comfort	Escape and rescue routes, emergency routes, emergency exits, evacuation	Planning, control, keeping routes and exits clear	lead/control	✓	lead/control	lead/control							•	•		
		know	✓	know	know	know											
Emergency lighting, safety lighting		Lighting of escapes and rescue routes, illuminance, failure safety	lead/control	✓	lead/control	lead/control							•				
know		✓	know	know	know												
Visitor guidance	Information concepts, competence, barriers, signage			✓									•				
	know	✓	know	know													
Maximum number of persons	Booking, allowed seats for visitors, distribution of visitors, density of persons			✓									•				
	know	✓	know	know													

Competence area	Procedures, objects, processes	Aspects	Examples, annotations, influence	Visitors	Survey	Artists	Employees	Building	Devices	Equipment	Materials	Systems	Accident	Health hazards	Fire	Damage to property	
				Guests		Stakeholders											
		Accessibility	Separate production area, stable constructions, slopes/gradients	lead/control	✓								🔴				
				know	✓												
		Trip and slip hazards, place of fall	Accessibility, anti-slip, inclined surfaces, railings at the crash edges	lead/control	✓									🔴			
				know	✓	know	know										
		Construction of platforms	Stability of entrances	lead/control	✓		lead/control							🔴			🔴
				know	✓		know										
		Seats	Technical requirements, entrances, wheelchair spaces		✓								🔴				
				know	✓												
		Toilet facilities	Entrance, hygiene, lighting		✓												
				know	✓	know	know	know			know		🔴			🔴	
B Work organisation Planning and organising work according to safety rules and regulations	Coordinate the allocation of available resources	Personnel, resources , time, spaces	Prevent overtime and fatigue among personnel, consider breaks, construction dimensioning			lead/control	lead/control						🔴	🔴		🔴	
						know	know		know								
	Coordination of hazardous processes	Set and stage construction, communication, instructions	e.g. for moving stage machinery, open transformations, special scenic effects			lead/control	lead/control				know		🔴		🔴	🔴	
						self-perform	self-perform										
						know	know										
	Use of the right equipment and resources	Equipments for carrying heavy loads	e.g. Floor conveyors, prevention of back injuries.		✓	lead/control	lead/control							🔴	🔴	🔴	🔴
							self-perform										
						know	know	know	know								
			Safety measures for work at heights	Safety measures against fall, personal protective equipment (PPE), lifelines	lead/control	✓	lead/control	lead/control						🔴	🔴	🔴	🔴
					know	✓	know	know	know	know							
			Personal protection equipment	Determination, selection, organisation of care		✓	lead/control	lead/control						🔴	🔴	🔴	🔴
						✓	know	know									
	Use of qualified personnel	Transfer of duties, authority to issue directives	Selection based on the evaluation of hazards, delegation of duties, determination of authorities	lead/control	✓	lead/control	lead/control	lead/control	lead/control	lead/control			🔴			🔴	
				self-perform	✓	self-perform	self-perform	self-perform	self-perform	self-perform						🔴	
				know	✓	know	know			know							

Competence area	Procedures, objects, processes	Aspects	Examples, annotations, influence	Visitors	Survey	Artists	Employees	Building	Devices	Equipment	Materials	Systems	Accident	Health hazards	Fire	Damage to property		
				Guests		Stakeholders												
	Instructions, briefing	Information about existing regulations	Instructions in mother tongue or English			lead/control	lead/control											
						self-perform	self-perform											
			know	✓	know	know	know	know	know	know								
	Health protection, safety at work	Instructions in mother tongue or English, project documents, documents on the resources of operation			lead/control	lead/control												
					self-perform	self-perform												
			know	✓	know	know	know	know	know	know								
	Workplace ergonomics	Ventilation	Supply air, exhaust air when air is polluted				lead/control	lead/control										
							self-perform	self-perform										
				know	✓	know	know											
		Lighting	Sufficient brightness, visibility of markings, glare			lead/control	lead/control											
							self-perform	self-perform										
				know	✓	know	know											
Workplace design	Dust pollution, operability of work equipment, seats, standing aid, sufficient work surface				lead/control	lead/control												
					self-perform	self-perform												
		know	✓	know	know													
Environmental noise/noise protection	Put signs on noisy areas, separate noisy work place				lead/control	lead/control												
					self-perform	self-perform												
		know	✓	know	know													
Weather	Create protection device, Temperature, (air condition, heater, frequent temperature changes), wet conditions				lead/control	lead/control			lead/control									
					self-perform	self-perform			self-perform									
		know	✓	know	know	know	know	know	know									
C Audio engineering Planning, building, setting up, operating and dismantling audio engineering devices according to requirements	Acoustic loads	Statutory limits	Visitors, employees and uninvolved third parties			lead/control	lead/control	lead/control				lead/control						
		know	✓	know	know													
	Overhead device safety/protection against tripping	Fastening of speakers and microphones	Inherent and coherent fuses, errors at assembly, checks			lead/control	lead/control	lead/control										
		know	✓	know	know	know	know	know	know									
D Video technology Planning, building, setting up, operating and dismantling video technology devices according to requirements	Camera movement system, (e.g. camera crane, cablecam) and player (video walls)	Safety of movement	Protection against involuntary movements			lead/control	lead/control	lead/control	lead/control	lead/control								
		know	✓	know	know	know	know	know	know									
	View of movements	Insight in the movement area			lead/control	lead/control	lead/control											
		know	✓	know	know	know			know									

Competence area	Procedures, objects, processes	Aspects	Examples, annotations, influence	Visitors	Survey	Artists	Employees	Building	Devices	Equipment	Materials	Systems	Accident	Health hazards	Fire	Damage to property		
				Guests		Stakeholders												
		Safety of stands	Stand space, wind loads, fixing points flächen	lead/control	✓	lead/control	lead/control	lead/control	lead/control									
				know	✓	know	know	know	know									
		Environmental conditions	Rain, sunshine							lead/control								
										know								
		Overhead device safety	Fixing of projection and image reproduction devices	Inherent and coherent fuses, errors at the assembly, checks, fixing points	lead/control	✓	lead/control	lead/control	lead/control	lead/control	lead/control							
					know	✓	know	know	know	know	know							
E Lighting technology Planning, building, setting up, operating and dismantling lighting systems according to specific requirements	Spotlights	Splinter protection	Temperature-lamps, high pressure lamps	lead/control	✓	lead/control	lead/control											
				know	✓	know	know											
		Glare	Viewing angle, light flux	lead/control	✓	lead/control	lead/control											
				know	✓	know	know											
		Heat generation, distance	Type of light generation, light flux, efficiency, device information	lead/control	✓	lead/control	lead/control				lead/control							
	know			✓	know	know	know	know	know									
	UV-radiation, optical radiation	Photobiological hazards, light flux, wave length, exposure times	lead/control	✓	lead/control	lead/control												
			know	✓	know	know												
	Use in outdoor area	Wetness, dust, wind, protection types, protection classes	lead/control	✓	lead/control	lead/control				lead/control								
			know	✓	know	know				know								
	Tripods, suspension tripods	Stability, protection against tripping, load capacity	Load calculation, stability, checks, unauthorised use	lead/control	✓	lead/control	lead/control			lead/control								
				know	✓	know	know	know	know	know								
Fall protection for overhead devices	Fixing of spotlights, distribution board	Inherent and coherent fuses, errors at the installation, checks, fixing points	lead/control	✓	lead/control	lead/control			lead/control									
			know	✓	know	know	know	know	know									
F Mobile Stage constructions Erecting and dismantling of mobile stage according to venue conditions and	Weather conditions	Wind/storm	Measurement of wind pressure, operational limit of constructions, falling branches	lead/control	✓	lead/control	lead/control											
				know	✓	know	know	know	know	know								

Competence area	Procedures, objects, processes	Aspects	Examples, annotations, influence	Visitors	Survey	Artists	Employees	Building	Devices	Equipment	Materials	Systems	Accident	Health hazards	Fire	Damage to property		
				Guests		Stakeholders												
regulations G Stage equipment Erecting and dismantling as well as using of stage structures and decoration with the use of stage equipment	Venue conditions	Lightning flash	Trees, tents, open ground, technical lightning protection	lead/control	✓	lead/control	lead/control						☞		☞	☞		
				know	✓	know	know	know	know									
		Rain, wetness, snow, hail	Softened ground, flooding, snow load, potential equalisation	lead/control		lead/control	lead/control							☞			☞	
				know	✓	know	know	know	know	know								
		Frost	Types of protection	lead/control	✓	lead/control	lead/control							☞			☞	
				know	✓	know	know	know	know	know								
		Floor load	Soil conditions/underground, hanging slope inclination, accessibility				lead/control	lead/control	lead/control						☞			☞
				know	✓	know	know	know	know	know								
		Driveways and loading zones	Navigability, loads, passage width, load area	lead/control	✓		lead/control					lead/control			☞			☞
			know	✓	know	know	know	know			know							
	Noise nuisance, neighbours	Building situation, building time		✓							lead/control			☞				
											know							
	Support structures	Wooden structures	Consider load capacity and statics, consult a structural engineer, consider coatings, fire protection requirements	lead/control	✓	lead/control	lead/control							☞		☞	☞	
				know	✓	know	know	know	know	know								
		Metal structures	Consider load capacity and statics, consult structural engineers, consider coatings, check damages	lead/control	✓	lead/control	lead/control							☞			☞	
				know	✓	know	know	know	know	know								
	Locksmithing	Consider load capacity and statics, consult structural engineers, employ competent staff (joiner/welder)	lead/control	✓	lead/control	lead/control							☞			☞		
			know	✓	know	know	know	know	know									
	Carpentry	Consider load capacity, consider structures, consult structural engineers, employ competent staff (joiner / welder)	lead/control	✓	lead/control	lead/control								☞			☞	
			know	✓	know	know	know	know	know									
Rigging	Personal safety	Lifelines, personal protection equipment (PPE), ensure safety of rescue at heights			lead/control	lead/control							☞					
					know	know	know											

Competence area	Procedures, objects, processes	Aspects	Examples, annotations, influence	Visitors	Survey	Artists	Employees	Building	Devices	Equipment	Materials	Systems	Accident	Health hazards	Fire	Damage to property			
				Guests		Stakeholders													
		Load capacity	Static und dynamic aspects, encumbrances in the event of a fault, mounting position, mixing of work resources	lead/control	✓	lead/control	lead/control	lead/control	lead/control										
				know	✓	know	know	know	know	know									
		Slings	Tests, maximum load, damages,	lead/control	✓	lead/control	lead/control			lead/control									
				know	✓	know	know			know									
		Sling methods	Intended use, mounting position, reduction factors	lead/control		lead/control	lead/control	lead/control	lead/control	lead/control									
				know	✓	know	know	know	know	know									
		Stage floor	Floor opening, crash edges	Fall site, orchestra pit, end of performance areas			lead/control	lead/control											
							know	know	know										
			Moving parts	Stage set on wheels	lead/control	✓	lead/control	lead/control											
				know	✓	know	know	know											
	Upper stage machinery	Access. Ascent	Warehousing of materials, safety accessibility, handrails			lead/control	lead/control												
						know	know	know	know										
		Orientation	When dark or foggy			lead/control	lead/control												
						know	know	know	know										
		Work at height	Work at galleries/rigging loft, lighting bridge, set construction, PPE	lead/control		lead/control	lead/control												
				know		know	know	know	know										
Load capacity		Consider static and dynamic loads, conversion factors, (hoists)			lead/control	lead/control			lead/control										
			know		know	know	know	know	know										
	Ladders, steps	Appropriate use, tests	lead/control	✓	lead/control	lead/control													
			know	✓	know	know	know	know											
	Movement of stage machinery	Hoists, point hoists, chain hoist systems, persons on or under the load			lead/control	lead/control	lead/control	lead/control	lead/control										
					know	know	know	know	know										

Competence area	Procedures, objects, processes	Aspects	Examples, annotations, influence	Visitors	Survey	Artists	Employees	Building	Devices	Equipment	Materials	Systems	Accident	Health hazards	Fire	Damage to property	
				Guests		Stakeholders											
		Airframe	Scenic movement of persons, tests before usage	lead/control	✓	lead/control	lead/control						•				
		know	✓	know	know	know											
	Lower stage machinery (podiums, trap doors)	Movement of stage machinery	Persons on rotating stages, lifting platforms/trap lifts	lead/control	✓	lead/control	lead/control	lead/control	lead/control	lead/control				•			•
				know	✓	know	know	know	know	know							
		Floor openings	Trap lifts			lead/control	lead/control							•			
						know	know	know	know								
		Safeguards	Fall, safeguards	lead/control	✓	lead/control	lead/control							•			
				know	✓	know	know										
		Floor slopes	Slippery shoes on slopes	lead/control	✓	lead/control	lead/control							•			
				know	✓	know	know	know	know								
	Set constructions, decorations, construction of the fair	Load capacity, stability	Wind pressure, multilevel construction	lead/control	✓	lead/control	lead/control							•			•
				know	✓	know	know			know							
		Assembly techniques, connections	Power supply, water, compressed air, exhaust for engines, special gases, noise emissions, dust formation	lead/control	✓	lead/control	lead/control							•			•
				know	✓	know	know										
		Fall site		lead/control	✓	lead/control	lead/control							•			
				know	✓	know	know										
		Construction weight	Load capacities, objects, exhibits	lead/control	✓	lead/control	lead/control			lead/control				•	•		
				know	✓	know	know	know	know	know							
		Materiality	Fire loads, bearing surface, processibility, interactions	lead/control	✓	lead/control	lead/control							•		•	•
				know	✓	know	know										
		Example-, accessibility	Non accessible areas, loading limits	lead/control	✓	lead/control	lead/control			lead/control				•			•
				know	✓	know	know			know							

Competence area	Procedures, objects, processes	Aspects	Examples, annotations, influence	Visitors	Survey	Artists	Employees	Building	Devices	Equipment	Materials	Systems	Accident	Health hazards	Fire	Damage to property	
				Guests		Stakeholders											
	Fire protection (preventive, defensive)	Flammability of materials and setting	Classes of construction materials, mixing materials, impregnation	lead/control	✓	lead/control	lead/control	lead/control	lead/control								
				know	✓	know	know	know	know								
		Structural fire protection	Fire section, fire protection doors			lead/control	lead/control	lead/control									
				know	✓	know	know	know	know	know							
		Technical fire protection	Fire alarm system, smoke detector, fire alarm, fire sprinkler, water spray extinguishing systems			lead/control	lead/control	lead/control	lead/control								
				know	✓	know	know	know	know	know							
	Operational fire protection	Smoking bans, warehousing of materials, testing of fire protection properties			lead/control	lead/control	lead/control	lead/control	lead/control								
				know	✓	know	know	know	know								
	Chimney	Smoke and heat ventilation system, window openings, ventilation															
				know	✓	know	know	know	know								
	Fire-extinguishing devices (mobile, stationary)	Selection and number of fire extinguisher, fire extinguishing water, fire extinguishing blankets, fire extinguishing sand, water hydrants				lead/control	lead/control	lead/control									
				know	✓	know	know	know	know								
H Power distribution Planning and installation of the supply for the used equipment and systems with the necessary power	Power supply	Grounding	TT-Systems, equipotential, measurements	lead/control	✓	lead/control	lead/control										
				know	✓	know	know	know	know								
		Load distribution, dimensioning	Emergency power, security of supply, simultaneity factor, star point shifts							lead/control							
									know								
		Fuses and protection devices	Tests and measurements against residual current circuits and overload			lead/control	lead/control	lead/control		lead/control							
				know	✓	know	know	know	know								
	Electrical special installations	Electrical installations in set and tradefair constructions	Ensure protection types, protection classes, temperature/accumulation, touch safety, cable routing			lead/control	lead/control										
						know	know										
	Cable laying	Protection against tripping	Cable laying, cable installation indications, covers	lead/control	✓	lead/control	lead/control										
				know	✓	know	know	know	know								

Competence area	Procedures, objects, processes	Aspects	Examples, annotations, influence	Visitors	Survey	Artists	Employees	Building	Devices	Equipment	Materials	Systems	Accident	Health hazards	Fire	Damage to property			
				Guests		Stakeholders													
		Connection security	Plug connections, intentional and unintentional loosening of connection systems						lead/control										
		Dimensioning, protection against damages	Voltage drop, cable types, accumulation	lead/control	✓	lead/control	lead/control		lead/control										
		Wet conditions	Protection classes, protection types, protective low voltage	lead/control		lead/control	lead/control		lead/control										
		Devices and equipment	Only qualified personnel can operate and open	Operation through qualified personnel Only qualified personnel may repair				lead/control		lead/control									
							self-perform		self-perform										
							know		know										
Put media integration ICT and its periphery into operation, connect to internal and external network and put into operation	Server	Heat generation, vapour	Ventilation, exhaust air, active cooling																
				know		know	know		know										
J Special effects Evaluate and use scene technical effects	Pyrotechnical effects Procedures involving fire hazards	Fireworks, bangs, sparklers	Registration, classes, warehousing, technical personnel, safety areas, fire protection measures	lead/control	✓	lead/control	lead/control												
				know	✓	know	know	know	know	know									
		Shots	Noise protection, acoustic shock, war weaponry dummies, safeguarding			lead/control													
				know	✓	know	know			know									
					lead/control	✓	lead/control	lead/control											
			know	✓	know	know	know	know			know								
					lead/control	✓	lead/control	lead/control											
			know	✓	know	know	know	know	know	know									
					lead/control	✓	lead/control	lead/control											
			know	✓	know	know	know	know	know	know									
	Animals on stage	Proper animal handling	Straw, no bright lights, heat, noise, if necessary, antitoxin, familiar person, sufficient trials			lead/control													
				know	✓	know	know			know									
	Acrobatic actions	Tightrope walking, actions at higher altitude, jumps	Protection of visitors, effects on building structures, artistic equipment			lead/control													
				know	✓	know	know	know	know										

Competence area	Procedures, objects, processes	Aspects	Examples, annotations, influence	Visitors	Survey	Artists	Employees	Building	Devices	Equipment	Materials	Systems	Accident	Health hazards	Fire	Damage to property	
				Guests		Stakeholders											
	Dangerous acts on stage	Stunts, abseiling, climbing, flying persons	Rehearse hazards to others			lead/control											
						self-perform											
			know	✓	know	know											
	Fighting scenes	Knives, glasses, etc. experience of participants			lead/control												
					self-perform												
			know		know	know											
	Laser	Protection against burnings and eye injuries	Protection areas, power class, value of maximum allowable load M.A.L., registration			lead/control	lead/control	lead/control									
			know	✓	know	know											
Atmospheric effects	Wind, fog, rain, dust, smoke, snow	Health hazards, ventilation, deposits			lead/control	lead/control	lead/control		lead/control								
		know	✓	know	know	know	know	know									
K Logistics Resource planning, provisioning, acquisitioning, warehousing, transportation, maintenance and disposal of the required materials	Internal transport External transport (trucks)	Loading, weight, transport safety	Floor conveyors, load distribution, hazardous substances/batteries			lead/control	✓	lead/control	lead/control	lead/control	lead/control						
					know	✓	know	know	know	know	know	know					
	Material lifts, podiums, lifting platforms, lifting devices	Safety operation	Competent personnel, guidance, transfer			lead/control	✓	lead/control	lead/control		lead/control						
						know	✓	know	know		know						
		Protection against unauthorised improper and unintentional use			lead/control	✓	lead/control	lead/control	lead/control	lead/control							
			know	✓	know	know	know	know	know								
	Warehousing	Safety access, stability, security, climate, moisture, fire protection					lead/control	lead/control	lead/control	lead/control							
			know		know	know	know	know	know	know							
	Disposal	Defect/unusable/used/consumed materials, substances, equipment	Hazardous substances/batteries					lead/control		lead/control	lead/control						
							know		know	know							
	Handling of hazardous substances	Storage, transport, disposal	Solvents, detergents, paints					lead/control	lead/control		lead/control						
							know	know		lead/control							

lead/control He/she leads the procedural implementaion within the scope of the whole coordination and controls the fulfilment of (legal) requirements.

self-perform He/she has profound knowledge of the requirements, independently develops professionally-detailed alternative solutions and can put these into practice. Implement these practically.

know He/she knows the (legal) fundamentals for this field and has a basic substantial knowledge of the requirements.