Saudi Entertainment Academy 2023 -2024

Course Study Plan

Diploma: Entertainment Centers Maintenance





13 NOVEMBRE **2023**

University Côte d'Azur / GIP FCIP Paris Referents : JC BOISSE / C. TACHEFINE

Version 3









Saudi Entertainement Academy Course Study Plan

Diploma: Entertainment Centers Maintenance

Semester 1:

Certificate delivered: C1 "General Maintenance"

						ι	Jnits	Total H /	
Course Code	Unit Title	Unit Purpose	Learning outcomes for skills	Learning outcomes for knowledge	Pre-Req.	Cr.	Total H/ week	Sem	
C1U1	Expression and Language	Become aware of the challenges of communication in order to be able to express oneself correctly in writing as orally and to adapt his speech to different contexts; Development of the ability to communicate correctly in a foreign language (oral and written);	Synthesize and reformulate the content of a message; Write, express and structure an analysis according to an adequate plan; Understand a document of general interest in any medium (written, audio and video): literary extracts, posts by blog, reports;	Differentiate and understand the different types of reading and text production extracts; Vocabulary acquisition; Review of grammar basics;	No		included in College Requirements		
C1U2	Applied Mathematics and Physics	Numerical functions & geometry; Electricity;	Use of the essential numerical functions and geometry concepts; Perform measurements with suitable devices; Calculate surfaces and volumes; Electricity production and distribution; Basic laws of electricity;	Numérical functions, basic geometry laws; AC & DC, electicity transport and security; Numeration, trigonometrics; Basics of electricity;	No	2	3	36	



Semester 1:

Certificate delivered: C1 "General Maintenance"

						U	nits	Total H /
Course Code	Unit Title	Unit Purpose	Learning outcomes for skills	Learning outcomes for knowledge	Pre-Req.	Cr.	Total H/ week	Sem
L CIU3	Fonctional and Technical analysis of game equipments	Specifications and use of various game equipments	Diagnose breakdowns; Use the information collected; Define and / or plan preventive maintenance; Suggest or define areas for improvement; Suggest and / or design improvement solutions; Contribute to taking into account maintenance constraints when upgrading assets; Ensure the internal and external communication of the maintenance department	Analyze the functional, structural and temporal organization; Identify and characterize the energy chain; Identify and characterize the information chain;	No	2	4	48
C1U4	Organization and corrective maintena	Principles of corrective maintenance of game equipments; Strategy and organisation of game equipements	Diagnose breakdowns; Prepare interventions; Perform corrective actions; Return to service; Define the maintenance strategy; Set up and / or optimize the organization of maintenance activities;	Diagnose breakdowns; Repair, troubleshoot and possibly put back into service; Identify the risks for people or the environment, define and comply with appropriate prevention measures; Analyze reliability, maintainability and safety; Organize maintenance strategy and logistics; Prepare corrective and preventive maintenance interventions;	No	2	3	36



Semester 2:

Certificate delivered: C2 "Equipment Maintenance"

						U	nits	Total H /
Course Code	Unit Title	Unit Purpose	Learning outcomes for skills	Learning outcomes for knowledge	Pre-Req.	Cr.	Total H/ week	Sem
C2U1	Expression and Language	Express oneself correctly in writing as orally and to adapt his speech to different contexts; Development of the ability to communicate correctly in a foreign language (oral and written) in a professional context;	Synthesize and reformulate the content of a message; Write, express and structure an analysis according to an adequate plan; Understand a technical document of general interest in any medium (written, audio and video);	Differentiate and understand the different types of reading and text production extracts; Vocabulary acquisition; Grammar;	No	2	4	48
C2U2	Applied Mathematics and Physics	Numeration ; Electricity; Optics ; Acoustics ;	Use of the essential numerical functions and geometry concepts; Perform measurements with suitable devices;	Numerical sequences; Recursivity; Electricity power consumption; Sound propagation; Ligth propagation;	C1U2	2	7	84
(203	Fonctional and Technical analysis of show equipments	Specifications and use of various show equipments	Diagnose breakdowns; Use the information collected; Define and / or plan preventive maintenance; Suggest or define areas for improvement; Suggest and / or design improvement solutions; Contribute to taking into account maintenance constraints when upgrading assets; Ensure the internal and external communication of the maintenance department	Analyze the functional, structural and temporal organization; Identify and characterize the energy chain; Identify and characterize the information chain;	No	2	10	120
COLIA	Organization and corrective maintenance of show equipments	Principles of corrective maintenance of show equipments; Strategy and organisation of show equipements maintenance;	Diagnose breakdowns; Prepare interventions; Perform corrective actions; Return to service; Define the maintenance strategy; Set up and / or optimize the organization of maintenance activities;	Diagnose breakdowns; Repair, troubleshoot and possibly put back into service; Identify the risks for people or the environment, define and comply with appropriate prevention measures; Analyze reliability, maintainability and safety; Organize maintenance strategy and logistics; Prepare corrective and preventive maintenance interventions;	No	2	9	108



Semester 3:

Certificate delivered: C3 "Safety"

						U	Inits	Total H /
Course Code	Unit Title	Unit Purpose	Learning outcomes for skills	Learning outcomes for knowledge	Pre-Req.	Cr.	Total H/ week	Sem
C3U1	Expression and Language	different contexts; Development of the ability to communicate correctly in a foreign language (oral and written) in a	message: Write express and structure an	Differentiate and understand the different types of reading and text production extracts; Vocabulary acquisition; Grammar;	C2U1	2	6	36
C3U2	Applied Mathematics and Physics		Use of the advanced geometry tools ; Perform	Geometric orthogonal coordinate systems; Basic electronics circuits; Basic concepts of mechanics for maintenance;	C2U2	2	7	42
C3U3	Safety for maintenance	Ensure the visitors' security in an entertainment center (prevention and intervention); Prevent fire incidents and participate to fire fighting. Electricity	Implement preventive actions and interventions taking into account all the available means and the diversity of the visitors; Respect the legal and regulatory framework, and the instructions of the amusement park management; Perform professional gestures of fire prevention and fight; Intervene safely on an electrical installation;	Preventive and intervention techniques; Local legal framework; Company rules and regulations; Fire prevention and fight techniques; Electricity security norms	No	2	17	102



Semester 4:

Certificate delivered: C4 "Management of Maintenance & Safety"

						U	Total H/ week 3 3	Total H /
Course Code	Unit Title	Unit Purpose	Learning outcomes for skills	Learning outcomes for knowledge	Pre-Req.	Cr.	H/	Sem
C4U1	Public safety Basics	Ensure the visitors' security in an entertainment center (prevention and intervention)	Implement preventive actions and interventions taking into account all the available means and the diversity of the visitors; Respect the legal and regulatory framework, and the instructions of the amusement park management;	Preventive and intervention techniques; Local legal framework; Company rules and regulations;	No	3	3	36
C4U2	Security of visitors and premises	Contribute to the security of the visitors, the premises and equipment at a leisure park	Filter, control and direct the entrances and exits of people and vehicles; Perform a security patdown and visual inspection of bags; Operate surveillance patrols; Ensure surveillance of the various places and of the entrances to the leisure parcs site (specific standards)"; Respect the legal and regulatory framework, the instructions; of the management	Control techniques and procedures Local legal framework Communication techniques	No	3	3	36
C4U3	Incidents detection	Implement methods of prevention dedicated to leisure parks	Prevent technical incidents; Observe and detect suspicious behavior; Monitor through video protection and various alarms; Prevent the hazards and dangerous behavior; Implement preventive actions taking into account all the means available;	Prevention techniques Equipment technicalities and use Methods of preventing and combating malicious acts	No	3	3	36



Semester 4:

Certificate delivered: C4 "Management of Maintenance & Safety"

						U	nits	Total H /
Course Code	Unit Title	Unit Purpose	Learning outcomes for skills	Learning outcomes for knowledge	Pre-Req.	Cr.	Total H/ week	Sem
C4U4	Security intervention	Take part in the resolution of abnormal/hazardous situations	behavior; Take the necessary mesures to solve the problem; Take adapted protective measures; Participate in	Conflict resolution techniques ;	No	3	3	36
C4U5	Management basics	Principles of management	Participate to the implementation of management principles in a leisure park;	Management general technics	No	3	8	96
C4U6	Study and realization of a maintenance/safety activity in a professional context	On job training - 4 weeks	Activity report	Ability to use all academic knowledge within the framework of the internship mission	All	2	30	120



Semester 5:

Certificate delivered: C5 "Advance Management of Maintenance & Safety"

						l		Total H /
Course Code	Unit Title	Unit Purpose	Learning outcomes for skills	Learning outcomes for knowledge	Pre-Req.	Cr.	r. Total H/ week	Sem
C5U1	First aid & rescue	Provide first aid and rescue people	Perform professional gestures of first aid and rescue	First aid and rescue techniques	No	3	3	36
C5U2	Emergency organization	Organize help or emergency assistance to victims	Give and/or to receive alarm; Secure the location, remove or limit the risk of an over-damage; Establish contact with one or more victims;	Alarm procedures and means; Techniques for securing an accident site; Crises communication techniques;	No	3	7	84
C5U3	First aid and rescue	Ensure relief and assistance to victims	Establish a of first-aid assessment; Rescue the victim; Provide a first-aid intervention; Use the equipment available; Admit and accompany the rescue team; Prepare a stretcher and assist in the victim's evacuation; Write professional documents and communicate orally;	Appropriate technics to apply in case of: discomfort, wounds, burns, trauma, external bleeding, obstruction of the airway by a foreign body, loss of consciousness, cardiac arrest; Oral and written reporting techniques;	No	3	7	84



Semester 5:

Certificate delivered: C5 "Advance Management of Maintenance & Safety"

						U	Inits	Total H /
Course Code	Unit Title	Unit Purpose	Learning outcomes for skills	Learning outcomes for knowledge	Pre-Req.	Cr.	Total H/ week	Sem
C5U4	Rescue equipment maintenance	Maintain the operational standard of the rescue equipment	Repack/put back in order the used equipment Clean the vehicles/nursing station Manage waste	Various rescue equipment characteristics, use and maintenance	No	З	7	84
C5U5	Project leading	Principles of project management	Analyse the needs and the context; Design a project and choose the relevant team; Implement the steps of the project; Monitor the activities and results (quality control, satisfaction);	Project management principles, applied to Safety	No	3	16	192
C5U6	Study and realization of an advanced maintenance activity in a professional context	On job training - 4 weeks	Activity report	Ability to use all academic knowledge within the framework of the internship mission	All	2	30	240

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Diploma: Entertainment Centers Management

Specialty: Safety





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Saudi Entertainement Academy Course Study Plan

Diploma: Entertainment Centers Management

Specialty: Safety

Semester 1:

Certificate delivered: C1 "Public safety"

						U	nits	Total H /
Course Code	Unit Title	Unit Purpose	Learning outcomes for skills	Learning outcomes for knowledge	Pre-Req.	Cr.	Total H/ week	Sem
C1U1	Public safety Basics	Ensure the visitors' security in an entertainment center (prevention and intervention)	the diversity of the visitors ; Respect the legal and regulatory framework,	Preventive and intervention techniques; Local legal framework; Company rules and regulations;	No	3	3	36
C1U2	Security of visitors and premises	the premises and equipment at a leisure park	Isurveillance patrols : Ensure surveillance of the	Control techniques and procedures Local legal framework Communication techniques	No	3	3	36



Specialty: Safety

Semester 1:

Certificate delivered: C1 "Public safety"

						U	Jnits	Total H /
Course Code	Unit Title	Unit Purpose	Learning outcomes for skills	Learning outcomes for knowledge	Pre-Req.	Cr.	Total H/ week	Sem
C1U3	Incidents detection	Implement methods of prevention dedicated to leisure parks	Prevent technical incidents; Observe and detect suspicious behavior; Monitor through video protection and various alarms; Prevent the hazards and dangerous behavior; Implement preventive actions taking into account all the means available;	Prevention techniques Equipment technicalities and use Methods of preventing and combating malicious acts	No	3	3	36
C1U4	Security intervention	Take part in the resolution of abnormal/hazardous situations	Analyze anomalies/hazardous event/conflicting behavior; Take the necessary mesures to solve the problem; Take adapted protective measures; Participate in the evacuation/invacuation of a place; Write professional documents and communicate orally;	Events typology and characteristics; Intervention techniques and procedures;	No	3	3	36



Specialty: Safety

Semester 2:

Certificate delivered: C2 "Rescue"

						U	Inits	Total H /
Course Code	Unit Title	Unit Purpose	Learning outcomes for skills	Learning outcomes for knowledge	Pre-Req.	Cr.	Total H/ week	Sem
C2U1	First aid & rescue	Provide first aid and rescue people	Perform professional gestures of first aid and rescue	First aid and rescue techniques	No	3	3	36
C2U2	lenglish applied to Safety activities	Communicate properly in English (oral and written)	Synthesize and reformulate the content of a message; Write, express and structure an analysis according to an adequate plan;	Oral expression preparation technics; Reading and text production technics;	U01	3	3	36
C2U3	General economics of entertainment sector	Comprehensive approach of the companies' activity and policy in the economic, financial and sociological environment	Analyze economic, financial and sociological news related to the entertainment sector	Principles of leisure industry	No	3	3	36
C2U4	lemergency organization	Organize help or emergency assistance to victims	Give and/or to receive alarm; Secure the location, remove or limit the risk of an over-damage; Establish contact with one or more victims;	Alarm procedures and means; Techniques for securing an accident site; Crises communication techniques;	No	3	7	84



Specialty: Safety

Semester 2:

Certificate delivered: C2 "Rescue"

						L	nits	Total H /
Course Code	Unit Title	Unit Purpose	Learning outcomes for skills	Learning outcomes for knowledge	Pre-Req.	Cr.	Total H/ week	Sem
C2U5	First aid and rescue	Ensure relief and assistance to victims	Use the equipment available; Admit and accompany the rescue team; Prepare a stretcher and assist in the victim's evacuation; Write professional documents and	Appropriate technics to apply in case of: discomfort, wounds, burns, trauma, external bleeding, obstruction of the airway by a foreign body, loss of consciousness, cardiac arrest; Oral and written reporting techniques;	No	3	7	84
C2U6	Rescue equipment maintenance	Maintain the operational standard of the rescue equipment	Repack/put back in order the used equipment Clean the vehicles/nursing station Manage waste	Various rescue equipment characteristics, use and maintenance	No	3	7	84



Specialty: Safety

Semester 3:

Certificate delivered: C3 "Fire"

Course Code						U	Inits	Total H /
	Unit Title	Unit Purpose	Learning outcomes for skills	Learning outcomes for knowledge	Pre-Req.	Cr.	Total H/ week	Sem
C3U1	Fire prevention and fight	· · ·	Perform professional gestures of fire prevention and fight	Fire prevention and fight techniques	No	3	3	18
C3U2	English applied to Safety activities	Communicate properly in English (oral and written)		Oral expression preparation technics; Reading and text production technics;	U01	3	3	18
C3U3	Fire incident prevention	Participate to permanent fire incidents prevention	systems and the absence of a risk-generating situation;	Round techniques ; Safety equipment and systems technicalities ; Safety rules and regulations ;	No	3	9	54



Specialty: Safety

Semester 3:

Certificate delivered: C3 "Fire"

							U	nits	Total H /
	urse ode	Unit Title	Unit Purpose	Learning outcomes for skills	Learning outcomes for knowledge	Pre-Req.	Cr.	Total H/ week	Sem
C3	3U4	Fire safety warning operations	Contribute to the incident detection and alarm	Identify and interpret the alarm going off; Localize the hazard; Sound the alarm; Proceed with the evacuation /fire drill; Ensure safety zone, make the places secure; Accompany and direct the fire fighting team or fire brigade to fire;	Alarm procedures and means; Techniques for securing the fire area and the surrounding area; Crises communication techniques;	No	3	9	54
C3	:U5	Fire fight	Participate in the fight against the fire and bring people to safety	Use the best suited emergency equipment; Intervene with one's individual protection equipment (IPE) in a fire zone; Remove the fluids that generate risks; Participate to the evacuation proces and protection of people; Implement a hydraulic device/fire extinguisher; Extinguish the fire hazard without assistance or in collaboration; Ensure communication between central security office / security headquarters and the first-aid / emergency services; Clear and guard the fire zone; Keep equipment in operational use, through good maintenance with care; Write professional documents and communicate orally;	Emergency/fire equipment characteristics, use and maintenance Fluids and related risks Evacuation procedures Radio transmission procedures Oral and written reporting techniques	No	3	6	36



Specialty: Safety

Semester 4:

Certificate delivered: C4 "Management of Safety & Maintenance".

						U	nits	Total H /
Course Code	Unit Title	Unit Purpose	Learning outcomes for skills	Learning outcomes for knowledge	Pre-Req.	Cr.	Total H/ week	Sem
C4U1	Expression and Language	Express oneself correctly in writing as orally and to adapt his speech to different contexts; Development of the ability to communicate correctly in a foreign language (oral and written) in a professional context;	Synthesize and reformulate the content of a message; Write, express and structure an analysis according to an adequate plan; Understand a technical document of general interest in any medium (written, audio and video);	Differentiate and understand the different types of reading and text production extracts; Vocabulary acquisition; Grammar;	No	2	3	36
C4U2	Applied Mathematics and Physics	Numerical functions & geometry ; Electricity ;	Use of the essential numerical functions and geometry concepts; Perform measurements with suitable devices; Calculate surfaces and volumes; Electricity production and distribution; Basic laws of electricity;	Numérical functions, basic geometry laws; AC & DC, electicity transport and security; Numeration, trigonometrics; Basics of electricity;	No	2	2	36
C4U3	Fonctional and Technical analysis of game equipments	Specifications and use of various game equipments	Diagnose breakdowns; Use the information collected; Define and / or plan preventive maintenance; Suggest or define areas for improvement; Suggest and / or design improvement solutions; Contribute to taking into account maintenance constraints when upgrading assets; Ensure the internal and external communication of the maintenance department	Analyze the functional, structural and temporal organization; Identify and characterize the energy chain; Identify and characterize the information chain;	No	3	4	48
C4U4	Management basics	Principles of management	Participate to the implementation of management principles in a leisure park	Management general technics	No	3	9	108



Specialty: Safety

Semester 4:

Certificate delivered: C4 "Management of Safety & Maintenance".

						U	Inits	Total H /
Course Code	Unit Title	Unit Purpose	Learning outcomes for skills	Learning outcomes for knowledge	Pre-Req.	Cr.	Total H/ week	Sem
C4U5	Performance and maintenance of means	Understand the challenges and organization of the maintenance process	Maintenance process; Characteristics and performances of the means (Synthetic Yield Rate, reliability, maintainability, availability); Types of maintenance; Maintenance plans; Functional analysis; Security of goods and people; Availability study; Operational safety methods and tools (fault trees, FMEA, etc.); Choice of a maintenance strategy; CMMS;	Describe maintenance support processes; Identify the main tools associated with the maintenance support process; Implement the most common tools in simple applications; Identify the maintenance support professions as well as the qualities and skills necessary to exercise them; Implement the techniques essential for controlling operational safety and maintenance of industrial systems.	No	2	3	36
C4U6	Introduction to quality	Understand the different levels of requirements of quality benchmarks or labels.		Problem solving methods and tools; Principle of continuous improvement; Quality management standards for the industrial and service sectors; Process approach; Structure of a quality management system;	No	1	2	24



Specialty: Safety

Semester 5:

Certificate delivered: C5 "Advanced Management of Safety & Maintenance".

						U	nits	Total H /
Course Code	Unit Title	Unit Purpose	Learning outcomes for skills	Learning outcomes for knowledge	Pre-Req.	Cr.	Total H/ week	Sem
C5U1	Preventive maintenance	Define and/or plan preventive maintenance	Define systematic, conditional and forecast preventive maintenance operations:	Manufacturer's technical file; Company's technical and economic data; Maintenance history; Monitoring means; Analysis of breakdowns and failures; Tree breakdown of the equipment; IT management tools (CMMS);	No	3	8	96
C5U2	Safety for maintenance	Ensure the visitors' security in an entertainment center (prevention and intervention); Prevent fire incidents and participate to fire fighting; Electricity security	Implement preventive actions and interventions taking into account all the available means and the diversity of the visitors; Respect the legal and regulatory framework, and the instructions of the amusement park management; Perform professional gestures of fire prevention and fight; Intervene safely on an electrical installation;	fight techniques ; Electricity security	No	3	8	96



Specialty: Safety

Semester 5:

Certificate delivered: C5 "Advanced Management of Safety & Maintenance".

						U	nits	Total H /
Course Code	Unit Title	Unit Purpose	Learning outcomes for skills	Learning outcomes for knowledge	Pre-Req.	Cr.	Total H/ week	Sem
C5U3	- '	Construction of a quality management system	Raise awareness and support staff in activities related to quality (approach, procedures, instructions, tools, etc.); - Map a process; Build and implement a documentary system and organize information management (issuance, exploitation, archiving), define the information system linked to quality; Identify/characterize the processes (inputs, outputs, actors, measurement/control points, indicators), establish a map of processes and flows; Monitor the implementation of action plans and measure their effectiveness; Define and plan curative, corrective, preventive actions and verify implementation to system improvement; Use continuous improvement methods; - Improve and lead the progress process; - Develop quality documents (processes, procedures, instructions, operating methods, sheets registration, traceability, etc.);	Indicators and dashboards; Continuous improvement; Mapping; Ratings; Documentary structure and data management; Creativity and approach; Standards and quality management system;	C4U6	3	6	72
C5U4	Project leading	Principles of project management	Analyse the needs and the context; Design a project and choose the relevant team; Implement the steps of the project; Monitor the activities and results (quality control, satisfaction);	Project management principles, applied to Safety	No	3	14	168