INTERNATIONAL QUALIFICATIONS

AND ASSESSMENT CENTRE (IQAC)

«Approved»

2025 y. «___» _____

Programme	**Level Extended 4 Diploma in Architecture**		
Unit Number/ Unit Title	**Unit 3 Health, Safety, Security and Environment**		
Cohort Code:	L04HSS-U3		
Unit Level	4 Level		
Total Credits/Hours	Total qualification time 200/ Total Guided learning hours 90/ Self-guided learning hours 110		
Credits	20 CATS/ 10 ECTS		
Lecturer			
Start Date		**End Date**	

Unit Aims	This unit introduces learners to essential health, safety, security, and environmental principles as they apply to architecture and construction. Students will explore relevant legislation, identify hazards, implement risk assessments, and develop safe, sustainable design practices. Emphasis is placed on ensuring compliance and ethical responsibility in professional environments.
Differentiation Strategies *(e.g. planned activities or support for individual learners according to their needs)*	Various approaches to addressing the various identified students' needs will be adopted throughout the lesson. Such will include: 1. Progressive tasks 2. Digital resources 3. Verbal support 4. Variable outcomes 5. Collaborative learning 6. Ongoing assessment 7. Flexible-pace learning

Equality & Diversity	Variety of teaching techniques will be employed to ensure that the needs of each individual learner are met.
Safeguarding & Prevent	Safeguarding policies and the Prevent duty are strictly observed to ensure the safety, well-being, and inclusivity of all students and staff.
Health & Safety	SIRM H&S policies will be maintained.
Learning Resources	**Teaching and Learning Materials** • Hughes, P., & Ferrett, E. (2016). Introduction to Health and Safety at Work. Routledge. • Hill, R., & Bowen, P. (1997). Sustainable Construction: Principles and a Framework for Attainment. Construction Management and Economics. • Emmitt, S. (2018). Design Management for Architects. Wiley-Blackwell. • Chudley, R., & Greeno, R. (2016). Building Construction Handbook. Routledge. • Health and Safety Executive (HSE). (2023). Approved Codes of Practice and Guidance (UK).

Learning Outcome (The learner will:)	Assessment Criteria (The learner can:)
LO1. Understand key legislation and standards for health, safety, and environment in construction.	1. Written Exam: 1.1 Identify relevant UK/international HSE legislation and codes. 1.2 Explain roles and responsibilities of stakeholders in compliance.
LO2. Conduct risk assessments for architectural and construction activities.	2. Practical Task: 2.1 Identify hazards and evaluate risks in design scenarios. 2.2 Create a risk register and propose mitigation strategies.
LO3. Integrate health and safety principles into sustainable architectural design.	3. Project-Based Assignment: 3.1 Incorporate fire safety, ventilation, lighting, and material choice into a sustainable design. 3.2 Evaluate long-term environmental impact of design decisions.
LO4. Develop procedures for emergency response and site security.	4. Portfolio Submission: 4.1 Design an emergency plan tailored to a given construction site. 4.2 Propose site layout considerations for safety and security.
LO5. Promote a culture of safety and environmental responsibility.	5. Written Report: 5.1 Assess the impact of safety culture in design and construction practice. 5.2 Recommend strategies to promote environmental and safety awareness in teams.

No	Topic	Learning Outcomes for Each Topic	Which assessment criteria does the session relate to?	Day/month/ year/ signature
1	Introduction to Health, Safety, Security and Environment (HSSE) in Construction	Overview of concepts and importance in professional practice.	LO1, LO5	
2	The Legal Framework: Health and Safety Legislation (e.g. OSHA, HSE, local laws)	Explore national and international legal requirements.	LO1	
3	Roles and Responsibilities under Health and Safety Law	Understand duty holders: designers, contractors, employers.	LO1	
4	Construction Safety Codes and Industry Standards (ISO, BS)	Study construction-specific safety benchmarks.	LO1	
5	Identifying Hazards in Architectural and Construction Activities	Learn categories: physical, chemical, biological, ergonomic.	LO2	

6	Risk Assessment: Principles, Process, and Documentation	Step-by-step guide to hazard analysis and control measures.	LO1	
7	Risk Rating and the ALARP Principle	Analyze likelihood and severity; reduce risk to "as low as reasonably practicable."	LO1	
8	Method Statements and Safe Work Procedures	Develop structured safety procedures for specific tasks.	LO1	
9	Site Inspections and Reporting Hazards	Learn how to observe, document, and report workplace risks.	LO1	
10	Health and Safety in Sustainable and Green Architecture	Balance safety with ecological building goals.	LO3	
11	Designing for Safety: Passive and Active Strategies	Use design features to prevent accidents (e.g., lighting, layout).	LO3	
12	Indoor Environmental Quality (IEQ): Ventilation, Lighting, Acoustics	Integrate comfort, health, and energy efficiency.	LO3	
13	Safe Materials Selection and Waste Minimization	Understand toxicity, recyclability, and impact in materials.	LO3	

14	Construction Site Layout and Design for Safety	Apply spatial planning to prevent incidents.	LO3	
15	Mid-Semester Project: Sustainable and Safe Design Scenario	Apply principles in a practical group challenge.	LO3, LO5	
16	Midterm	**Midterm assessment** covering all learning outcomes (theory and practical elements)	LO1, LO2, LO3	
17	Fire Safety and Prevention in Building Design	Apply regulations and design principles to minimize fire risk.	LO4	
18	Emergency Response Planning: Evacuation, Fire Drills, and First Aid	Develop plans to manage on-site emergencies.	LO4	
19	Site Security Measures: Fencing, Lighting, Access Control	Protect personnel, equipment, and materials.	LO4	
20	Security Risk Assessment and Crime Prevention Through Environmental Design (CPTED)	Understand safety through spatial design strategies.	LO4	
21	Crisis Management and Communication	Explore how to communicate and respond during site emergencies.	LO4	

22	Safety Culture and Behaviour-Based Safety	Foster employee engagement and personal responsibility.	LO5	
23	Training and Induction Programs for Workers and Designers	Promote learning and safe practices from day one.	LO5	
24	Environmental Ethics in the Built Environment	Connect personal and social values to design choices.	LO5	
25	Construction and Demolition Waste Management	Plan for waste reduction and recycling on-site.	LO5	
26	Air, Noise, and Water Pollution Control	Manage environmental impacts of construction.	LO3, LO5	
27	Noise Risk and Worker Health: Acoustic Design Considerations	Ensure safe noise levels in working and living spaces.	LO3, LO5	
28	Workplace Well-being and Mental Health in Construction	Address stress, fatigue, and well-being.	LO5	
29	Site Audit and HSSE Evaluation Techniques	Measure performance and suggest improvements.	LO2, LO5	

30	Final Group Presentation: Designing a Safe, Secure, and Sustainable Space	Consolidated project covering all outcomes.	LO1 – LO5	
31	Final Exam			