



International Journal of Multidisciplinary Conference Proceedings

✉ editor@ijmcp.com

🌐 <https://www.ijmcp.com>

Immersive VR Training for Fire Safety and Crisis Response: A Risk-Free Learning Model

1st Abdullah Ansari, 2nd Areesha Imran, 3rd Hooria Shahzad, 4th Uzair Imran & 5th Dur-E-Shawar Agha

1st, 2nd, 3rd, 4th & 5th Sir Syed University of Engineering Science and Technology, Karachi

KEYWORDS	ABSTRACT
Virtual Reality Training, Crisis Preparedness, Fire Safety, Emergency Response	The current practice of crisis response training depends on conventional approaches which require substantial maintenance spending and create logistical risks and health safety concerns thus reducing the overall effectiveness during emergency preparation. This research investigates the development of a Crisis VR Simulator because it represents a virtual reality training platform which improves crisis response readiness by providing virtual interactive simulations. Real-world emergency situations such as fire incidents along with evacuation procedures and fire safety instructions are accurately replicated by this system inside a safe but realistic training environment. The customizable crisis scenarios addressed by the simulator enable service to diverse groups of users that span between students and professionals and emergency response teams. Virtual reality training provides substantial benefits by enhancing emergency preparedness as well as situational awareness and decision-making proficiency among trainees. The financial efficiency and secure conditions and flexible nature of VR-based instructions make this teaching approach a valuable replacement for traditional training approaches which propels emergency response education forward.
ARTICLE HISTORY	
Date of Publication: 16-04-2025	
Conference Organizer(s)	
Research Consultancy on Social & Management Development & University of Karachi DHA Suffa University	
Corresponding Email	Ansarali34@gmail.com
Volume-Issue-Page Number	2(1) 28
Citation	Ansari, A., Imran, A., Shahzad, H., Imran, U., & Agha, D.E. S.(2025). Immersive VR Training for Fire Safety and Crisis Response: A Risk-Free Learning Model. <i>Proceedings of the 1st International Conference on Innovation and Sustainability in Management and Social Sciences, *International Journal of Multidisciplinary Conference Proceedings</i> , 2(1).