## University of Central Lancashire

**School of Forensic and Investigative Science**

**Division of Fire Safety Engineering**

#### FV3900 Fire Science Dissertation Proposal Form

#### *Read: Breach, M (2009) Dissertation Writing for Engineers and Scientists, Pearson, Prentice Hall, ISBN 978-1-4058-7278-2*

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| STUDENT'S NAME: **Husam Hamed Amer Al-Hajri**  STUDENT'S REGISTRATION NUMBER:  **20126554** |

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| COURSE: **BSc Hons Fire Safety Engineering** | SUBMISSION DATE: **7th November 2014** |

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| PROPOSED TITLE: **Evacuation Strategies in Healthcare Premises** |

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| **AIM:**  The aim of this project is to investigate the points that not covered in the right way of the evacuation strategies procedures in healthcare premises. These points including buildings construction and compartmentation, fire protection, fire safety training, means of escape and fire evacuation plan. This research will cover all the shortcomings of these strategies in healthcare buildings based on BS 9999, HTM and Approved Document B.  **OBJECTIVES:**   1. To the implications of fire on delivery of services, life safety, the property and minimize environment. 2. To minimize as much as possible the risk of fire in the healthcare premises. 3. To develop operations - based problem adaptive tool that will help in improving the efficiency of different associated performance measures in many fire services. 4. To apply best practices from literature review and different tools adopted in different organizations and sectors. 5. To develop a risk analysis to mitigate the different “what if” scenarios that can occur within the different process. 6. Ect. |
| **SYNOPSIS AND PLAN OF WORK ;**    Healthcare management acknowledges its duty in ensuring that all patients, employees, visitors and property are protected from foreseeable fire risks. While fire presents a potential hazard to all premises, its consequences in any healthcare premise could have serious implications considering the difficulties involved in evacuating patients. This proposal aims at minimizing the risk of fire in Trust premises, and if, and when fire occurs, there are measures in place to rapidly detect, effectively contain, and extinguish the fire quickly. This implies that safety from fire will depend on physical factors, such as, building construction and design, furnishing and equipment, the maintenance and installation of fire alarm and detection systems. Fire safety also depends on local management procedures used in handling emergencies together with training of staff in such issues. Another important factor is the relationship between healthcare premises management and the local fire department.  **BASIS OF PROJECT/ RATIONALE;**  Management is committed to ensure the Health and Safety of all employees, patients and others in the premises. As part of that commitment, the policy apply that all properties owned or occupied by the management must comply with the fire safety guidelines and legislation. The major purpose of this project is to provide guidance on the standards of fire safety requirements in the healthcare premises owned or run by any organization or where the major changes or extensions of use are being considered, taking into account in the remaining sections of this proposal. The traditional approach in achieving fire safety codes usually concentrate on generic strategies, which are often likely to slow down the design process. By adopting an engineered fire safety solution for the organization, the designers of the premises will enjoy greater freedom, with their only obligation being the organization ensures all premises are safe from fire.  The rational of this project is to ensure protection of employees, patients, and others, in addition to ensuring provision is made for safe evacuation of occupants. Additionally, this project aims at minimizing the spread of fire from the premises to other buildings. In doing so, the project will aim to provide solutions that will help in managing the fire before it spreads to surrounding structures. This project also aims at ensuring the stability of the premises, to ensure the structures will not be in danger from any fire in neighbouring building, and in case of storey buildings, no major failure in structural system should occur. This strategy also aims to ensuring that the generation and spread of fire and smoke will be minimized or controlled to the lowest extent possible using modern fire management equipment. Last, adequate equipment and means of access is provided for detecting, controlling, and extinguishing fire is availed. (Atwal (2002)).  **OUTLINE METHODOLOGY;**   * Case study analysis of one accident of fire in health care premises. * Online literature review based on this key points 'evacuation strategies', 'fire in hospitals', etc. * Questioner for occupants in what problems and common mistakes, and * Checking the current evacuation strategies in BS9999 and Approved Document B. |
| **4. OUTLINE PLAN/TIMETABLE**  - Research and collect the information – 20th Oct 2014  - Start to write the literature review – 1st Nov 2014  - Meeting supervisor on – 21th Nov 2014  - Submit the literature review (draft) on – 12th Dec 2014  - Meeting supervisor on 15th Jan 2015  - Submit the dissertation draft on – 1st March 2015  - Submit the dissertation on – 2nd April 2015 |
| **Proposed Supervisor:**  **I agree to supervise this project**  **SIGNED DATE** |
| DECLARATION **I confirm that the particulars given in this form are correct. I understand that I must prepare my project in English. I declare that all the work done in connection with my project will be my own.**  **SIGNED DATE** |

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| FOR UNIVERSITY USE ONLY **Date Received:**  **Further details required YES/NO**  **Approved by Registration Committee YES/NO**  **Supervisor approved YES/NO**  **Student notified: Date:** |