



UNIVERSITI TEKNOLOGI MARA

FSG471: OCCUPATIONAL SAFETY AND HEALTH

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| Course Name (English) | OCCUPATIONAL SAFETY AND HEALTH APPROVED |
| Course Code | FSG471 |
| MQF Credit | 3 |
| Course Description | This course will interactively engage students cognitively and scientifically in areas of occupational safety and health. This is the first of a three parts on Occupational Safety and Health. This part introduces the students to the historical development of occupational safety until the development of the modern occupational safety and health management system. Theories on accidents, accident prevention and investigation and HIRARC are briefly explained. All Malaysian laws and regulations related to the occupational safety and health are described in detail. Several Factories and Machineries Act 1967 Regulations related to the management of safety will also be highlighted. The outcomes shall be assessed through a variety of tools which include examination, tests, assignments, presentation and classroom engagement. |
| Transferable Skills | Able to apply the knowledge and understanding of law, theories and principle of environmental technology in solving authentic problems. Able to demonstrate practical skills in investigating any environmental related issues Able to suggest possible solution by applying critical thinking and scientific skills in environmental technology. Able to verbally communicate information and ideas effectively. Able to work effectively in a multidisciplinary team. Able to apply values, ethics, morality and professionalism in pursuit of their career advancement. Able to manage information and engage in lifelong learning. Able to apply managerial and entrepreneurial skills Able to demonstrate leadership skills. |
| Teaching Methodologies | Lectures, Blended Learning, Discussion, Presentation |
| CLO | CLO1 Explain the important elements of occupational safety and health in the management of hazards and risks in workplace. CLO2 Ascertain with certainty the occupational safety and health law requirements in managing safety, health and welfare at workplace. CLO3 Demonstrate responsibilities skill while presenting the hazard identification, risk assessment and risk controls in a workplace and FMA requirements. |
| Pre-Requisite Courses | No course recommendations |
| Topics | |
| 1. 1.0 Introduction to OSH 1.1) 1.1. Historical perspective 1.2) 1.2. Basic OSH Definition and Terminologies 1.3) 1.3. Origin and Source of OSH Laws 1.4) 1.4. OSH Regulators, Organisations & Service Providers | |
| 2. 2.0 Hazard Identification and Risk Assessment 2.1) 2.1. Categories and Types of Hazards 2.2) 2.2. Get Analysis and Job Safety Analysis/HIRARC 2.3) 2.3. Other Common Types of Risk Assessment | |
| 3. 3.0 Incident Prevention 3.1) 3.1. Basic causes of accidents 3.2) 3.2. Principles and approach of loss prevention 3.3) 3.3. Theories of accident causation and prevention 3.4) 3.4. Accidents and productivity | |

4. 4.0 OSH Incident Investigation and Corrective Action

- 4.1) 4.1. Overview of an incident / accident investigation
- 4.2) 4.2. Investigation Provision in OSH Act 1994
- 4.3) 4.3. Principles of accident investigation

5. 5.0 OSH Management System (OSH-MS)

- 5.1) 5.1. Introduction to concept of "system"
- 5.2) 5.2. PDCA (Policy, Plan, Do, Check and Act)
- 5.3) 5.3. OSHAS 18000, ILO OSH 2001 and ISO 45001
- 5.4) 5.4. Elements of occupational safety and health management systems

6. 6.0 Factories and Machineries Act 1967

- 6.1) 6.1. Introductions of Main Parts of the FMA Act 1967
- 6.2) 6.2. FMA Safety Regulations
- 6.3) 6.3. FMA Welfare Regulation
- 6.4) 6.4. FMA Health Regulations

7. 7.0 The Occupational Safety and Health Act 1994

- 7.1) 7.1. Introduction of Main Parts of the OSH Act 1994
- 7.2) 7.2. OSH Management & Organisation Related Regulations
- 7.3) 7.3. OSH Chemical Related Regulations
- 7.4) 7.4. NAADOPOD Regulations.

| Assessment Breakdown | % |
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| Continuous Assessment | 60.00% |
| Final Assessment | 40.00% |

| Details of Continuous Assessment | Assessment Type | Assessment Description | % of Total Mark | CLO |
|---|------------------------|--------------------------------|------------------------|------------|
| | Assignment | Cumulative of one assignments | 20% | CLO3 |
| | Presentation | Cumulative of one presentation | 10% | CLO3 |
| | Test | Cumulative of one test | 30% | CLO1 |

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| Reading List | This Course does not have any book resources |
| Article/Paper List | This Course does not have any article/paper resources |
| Other References | This Course does not have any other resources |