

UNIVERSITI TEKNOLOGI MARA EVT648: OCCUPATIONAL SAFETY AND HEALTH : INDUSTRIAL SAFETY

Course Name (English)	OCCUPATIONAL SAFETY AND HEALTH : INDUSTRIAL SAFETY APPROVED			
Course Code	EVT648			
MQF Credit	3			
Course Description	This course will interactively engage students cognitively and scientifically in areas of occupational and industrial safety. This course introduces the student with the aspects of occupational safety at workplace, which include machinery, tools and equipment and working in confined spaces. Hazards in working environments are identified and discussed in detail with the requirement of controls and prevention methods as required by the law. Students will also be introduced to Emergency Response Preparedness planning (ERP). The outcomes shall be assessed through a variety of tools which include the traditional paper examination, tests, written assignment, oral presentation , blended-learning and classroom engagement.			
Transferable Skills	Communication skills, Analytically skills, Team work skills			
Teaching Methodologies	Lectures, Blended Learning, Discussion, Presentation			
CLO	 CLO1 Identify the basic knowledge of occupational and industrial safety concepts and related regulation in various working environment CLO2 Explain the workplace hazards and its' control measures to solving occupational concern at workplace. CLO3 Demonstrate information management skills in preparing industrial safety programs at workplace CLO4 Display effective communication skill based on current issues related to occupational and industrial safety 			
Pre-Requisite Courses	No course recommendations			
Topics				
1. Review of the FM (1.1) 1.1 The machine	safety and welfare regulation.			
2. Types of Hazards 2.1) 2.1 Physical haz 2.2) 2.2 Chemical ha 2.3) 2.3 Biological ha 2.4) 2.4 Machinery ha 2.5) 2.4.1 Safe guard 2.6) 2.4.2 Safe mach 2.7) 2.4.3 Hand tools 2.8) 2.4.4 Maintenan 2.9) 2.4.5 General ar 3. PPE for Safety ar 3.1) 3.1 Introduction 3.2) 3.2 Body protect 3.3) 3.3 Respiratory 1 3.4) 3.4 Special work 3.5) 3.5 Introducing F	ards. zards. izard. azard. ard of machinery. ine operation. and portable power tools. ce of machine guards and tools. ea fencing. Id Health. to PPE. ion. protection. c lothing.			

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 4. Emergency Response Preparedness and Recovery Planning 4.1) 4.1 Recognising an emergency. 4.2) 4.2 Emergency management. 4.3) 4.3 Emergency planning. 4.4) 4.4 Emergency mitigation and resources. 4.5) 4.5 Procedures. 4.6) 4.6 Incident control and facilities. 4.7) 4.7 Training & exercises.
 5. House Keeping and Physical Arrangement. 5.1) 5.1 Definition and regulatory requirements. 5.2) 5.2 Physical and safe house keeping arrangement. 5.3) 5.3 Type and cause of accidents. 5.4) 5.4 Types of cause of diseases. 5.5) 5.5 Planning, scheduling of physical and safe house keeping arrangement. 5.6) 5.6 Factors to reduce accident and disease. 5.7) 5.7 Steps for a better house keeping.
 6. Pressurised Equipment. 6.1) 6.1 Definitions. 6.2) 6.2 Classification and the use. 6.3) 6.3 Dangerous occurrence. 6.4) 6.4 Factors causing dangerous occurrence. 6.5) 6.5 Control measures and the use of regulations.
 7. Mechanical Handling 7.1) 7.1 Definition, types and requirement on mechanical handling. 7.2) 7.2 Advantages and limits in mechanical handling. 7.3) 7.3 Main components in mechanical handling. 7.4) 7.4 Hazard and accident related to mechanical handling. 7.5) 7.5 Hazard and safety planning and control measures.
 8. Manual Handling 8.1) 8.1 Definition and law requirement. 8.2) 8.2 Type of accidents associated to manual handling. 8.3) 8.3 Factors, strategy and technique in manual handling. 8.4) 8.4 Hazard and safety planning and control measures.
 9. Working in Confined Space 9.1) 9.1 Definition and examples of confined space. 9.2) 9.2 Law requirement. 9.3) 9.3 Hazard and accident associated to working in confined space. 9.4) 9.4 Hazard and safety planning and control measures.
 10. Safety at Work Place 10.1) 10.1 Transport safety defensive driving (forklift). 10.2) 10.2 Welding safety. 10.3) 10.3 Office safety. 10.4) 10.4 Electrical Safety. 10.5) 10.5 Construction safety. 10.6) 10.6 Fire safety.

Assessment Breakdown	%
Continuous Assessment	60.00%
Final Assessment	40.00%

Details of						
Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO		
	Assignment	Cumulative one assignment	20%	CLO3		
	Presentation	Cumulative one presentation	10%	CLO4		
	Test	Cumulative one test	30%	CLO1		
Reading List Recommended						
	Text Goetsch, David L. 2005, Occupational Safety and Health for Technologists, Engineers and Managers, 8th Ed., Prentice Hall New Jersey [ISBN: 0133484173] Malaysia 2006, Occupational Safety and Health Act 1994 (Act 514) & Regulations and Orders [ISBN: 9678915022]					
	Reference Book Resources Malaysia,International Law Book Services. Legal Research Board 1991, Factories and Machinery Act 1967 (Act 139) & Regulations and Rules[ISBN: 9678904128]					
Article/Paper List	This Course does not have any article/paper resources					
Other References	This Course does not have any other resources					