

Occupational Health Safety and Enviroment

Specialization	Occupational Health, Safety and Environment
Course Number	22401111
Course Title	English for HSE
Credit Hours	(2)
Theoretical Hours	(2)
Practical Hours	(0)



جامعة البلقاء التطبيقية

Brief Course Description:

Effective communication in various situations, terminology to be used in the workplace, types of documentation required in the workplace, steps involved in writing a document, workplace documents, the role of writing and its value in the workplace

Course Objectives:

This course aims at:

- 1. Discuss the role of writing and its value in the workplace
- 2. Identify terminology to be used in the workplace
- 3. Identify types of documentation required in the workplace
- 4. Identify the steps involved in writing a document
- 5. Create workplace documents
- 6. Demonstrate effective communication in various situations



جامعة البلقاء التطبيقية

Unit Time Unit Name **Unit Content** Number Needed role of writing ✤ importance of writing 1. and its value in ✤ reasons for acquiring and organizing the workplace information \clubsuit the need for accurate directions to complete a task ✤ common terms used in the field of health 2. terminology to be used in the safety and environment workplace ✤ Use technical vocabulary to describe common industry components importance of documentation in relation to 3. types of documentation health, safety and environment required in the ✤ types of HS&E documentation required in workplace the workplace purpose and use of selected documents importance of document accuracy steps involved Identify the document's purpose 4. basic punctuation and sentence structure in writing a Discuss how to organize the content document Discuss how to edit the document tips for effective writing 5. workplace standard formats of HS&E documents documents ✤ Write a HS&E memo ✤ appropriate email and interoffice etiquette ✤ Write e-mails and faxes Demonstrate the ability to write accurate. concise directions for a given task ✤ Read short, simple text using e-mails and faxes effective Identify listening strategies 6. communicatio Explain appropriate rules of conduct in n in various formal and informal meetings situations ✤ Discuss the reasons to hold an HS&E committee meeting Participate in an informal meeting

Detailed Course Description:



جامعة البلغاء التطبيغية

Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	//
	Second Exam	20%	//
	Final Exam	50%	//
Homework and Projects		10%	
Discussions and lecture			
Presentations			

Teaching Methodology:

- ✤ Lecture
- Help Sessions

Text Books & References:

- 1. Dubrin, A. J. & Geerinck, T. (2009). *Human Relations: Interpersonal Job Oriented Skills* (3rd ed). Toronto, ON. Pearson Education Canada Inc.
- 2. Lannon, J. M., & Klepp, D. (2009). *Technical communications* (4th ed.). Toronto, ON: Pearson Longman.

Textbook:



جامعة البلغاء التطبيغية

Occupational Health Safety and Enviroment

Specialization	Occupational Health, Safety and Environment
Course Number	22401114
Course Title	Introduction to HSE
Credit Hours	(3)
Theoretical Hours	(3)
Practical Hours	(0)



جامعة البلقاء التطبيقية

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Brief Course Description:

HSE Importance & Influences, HSE Professional, Safety Culture, HSE Diploma Degree Program, Basic definitions and Terminology

Course Objectives:

This course aims at:

- 1. discuss HSE Importance & Influences
- 2. identify How to be an HSE Professional
- 3. discuss Safety Culture
- 4. demonstrate HSE Diploma Degree Program
- 5. discuss Basic Definitions and Terminology



جامعة البلقاء التطبيقية

Detailed Course Description:

Unit Number	Unit Name	Unit Content	Time Needed	
1.	HSE	General view of the Jordanian and Arab world		
	Importance &	Economic (Agriculture, Industrial, Tourism,		
	Influences	Services sectors and Oil & Gas industries, etc).		
		 Impact of HSE on Industrial sector, social 		
		affairs, tourism, community and other		
		economic sectors.		
		HSE economical effectiveness and role of		
		Insurance Companies		
		International Conventions C155 and International standards and requirements		
2.	How to be an	 Human Behaviour & behavioral safety 		
2.	HSE	 HSE Professional Characteristics 		
	Professional	 HSE Development path for professional 		
3.	Safety Culture	 Components of an efficient Safety Culture 		
		Where do we stand for?		
		What are you going to do to promote HSE		
		 Overview of safety issues in Jordan Labour law 		
4.	HSE Diploma	The program importance		
	Degree	The expected Community Safety Step change		
	Program	 Market general view and HSE demands 		
5.	Basic	Risk, Hazard, types of Hazard and Hazard		
	Definitions	control		
	and	 Industrial Hygiene 		
	Terminology	 Safety management System and environment 		
		management system		
		 Incidents, accidents analysis and investigations 		
		investigations		
		 Policies and procedures. Emergency action plan and response 		
		 Hot work, confined space, LOTO/TO, etc 		
		 Elements of successful Health and safety 		
		System		
		 Hierarchy and Hazard control 		
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Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	//
	Second Exam	20%	//
	Final Exam	50%	//
Homework and Projects		10%	

Teaching Methodology:

- Laboratory sessions
- Help Sessions

Text Books & References:

Textbook:

- 1. Stewart, J. M. (2002). Managing for a world class safety system. New York: John Wiley and Sons, Inc
- 2. Cayhill; Environmental Health and Safety Audits, 8th Edition
- 3. Kelloway E. K., Francis, L., & Montgomery, J. (2008). Management of occupational health and safety (4th ed.). Scarborough, ON: Thompson Learning Jordan labour law

References

- 1. Bird, Frank E. and Germain, George L. (1996). Practical Loss Control Leadership. Revised Edition. Det Norske *Veritas Inc., Loganville, Georgia*
- 2. Senge, Peter (1994) The Fifth Discipline: The Art & Practice of The Learning Organization. Bantam Doubleday Dell



Occupational Health Safety and Enviroment

Specialization	Occupational Health, Safety and Environment
Course Number	22401221
Course Title	SAFTY MANAGEMENT SYSTEM 1
Credit Hours	(3)
Theoretical Hours	(3)
Practical Hours	(0)



جامعة البلقاء التطبيقية

Brief Course Description:

National and international health, safety and environmental (HS&E) Legislation, components of the responsibility system rights and responsibilities of key HS&E stakeholders, principles of world class occupational health and safety systems, safety management systems

Course Objectives:

This course aims at:

- 1. Examine national and international health, safety and environmental (HS&E) Legislation
- 2. Examine the components of the responsibility system
- 3. Identify the rights and responsibilities of key HS&E stakeholders
- 4. Examine core principles of world class occupational health and safety systems
- 5. Examine safety management systems
- 6. Debate the concept of safety responsibility
- 7. Discuss strategies to implement a safety management program
- 8. Examine various elements of disability management



جامعة البلغاء التطبيغية

Unit Number	Unit Name	Unit Content	Time Needed
1.	national and	✤ Examine Jordan's Labor Law as it	
	international	applies to HS&E	
	health, safety and	 Examine Jordan's Social Security Law 	
	environmental	 Review applicable national fire, building, 	
	(HS&E)	radiation and environmental legislation	
	Legislation	 Compare international H&SE legislation 	
2.	components of the responsibility	 Discuss the three essential rights for individual workers 	
	system	 Recognize systems theory 	
		 Explain the external responsibility system 	
		 Discuss the internal responsibility system 	
		(IRS) or workplace responsibility system (WRS)	
		 Describe employer-employee 	
		relationships	
		 Examine the role and responsibilities of a 	
		health and safety professional.	
		 Explain the Goal of a WRS 	
		 Summarize the philosophy of the WRS 	
3.	Identify the rights	 Identify the rights and 	
	and	responsibilities/duties of employers	
	responsibilities of	 Identify the rights and 	
	key HS&E	responsibilities/duties of supervisors	
	stakeholders	 Identify the rights and responsibilities 	
		/duties of workers	
		 Identify the rights and 	
		responsibilities/duties of committees	
		 Identify the rights and 	
		responsibilities/duties of owners	
		 Identify the rights and 	
		responsibilities/duties of suppliers	
		 Identify the rights and 	
		responsibilities/duties of contractors	
		 Identify the rights and 	
		responsibilities/duties of labour	
		inspectors	

Detailed Course Description:



جامعة البلقاء التطبيقية

4.	Examine core	Define safety climate and safety culture
	principles of	 Identify the purpose of written safety
	world class	beliefs or values
	occupational	 Examine global components of corporate
	health and safety	safety culture
	systems	 Recognize components of a good
	systems	learning system
		 Examine the fundamental beliefs about
		safety and safety systems
		 Recognize the specific safety practices
		and the beliefs that underlie them
E	Evomino cofot-	 Discuss corporate culture diversity Compare global safety management
5.	Examine safety	
	management	templates
	systems	 Examine the elements of global safety
		management systems
		 Discuss the cost of implementing a
		corporate safety management system
		 Discuss the benefits of implementing a
(D-h-4-4h-	corporate safety management system
6.	Debate the	 Define safety responsibility Ensuring the principles of profetty
	concept of safety	 Examine the principles of safety
	responsibility	responsibility
		• Examine legal, moral and financial
		responsibilities to HS&E
		 Define duty to care
		 Review national and international
		obligations and liabilities of an OH&S
_		professional
7.	Discuss strategies	 Discuss phases of implementation Discuss phases of implementation
	to implement a	 Discuss steps to developing a safety management system
	safety	 Identify key personnel to assist with
	management	implementation activities
	program	 Discuss communication materials and
		activities required for safety management
		avatam implanantation
		system implementation
		 System implementation Discuss a Strategy to Implement an Occupational Health and Safety Program



جامعة البلقاء التطبيقية

8.	Examine various elements of disability management	 Discuss disability management programs Examine the elements of a disability management program Develop policy and procedure to sustain a disability management program Examine a return to work plan Examine cost/benefits of disability management program 	
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Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	//
	Second Exam	20%	//
	Final Exam	50%	/
Homework and Projects		10%	
Discussions and lecture			
Presentations			

Teaching Methodology:

- ✤ Lecture
- Help Sessions

Text Books & References:

- 4. Stewart, J. M. (2002). Managing for a world class safety system. New York: John Wiley and Sons, Inc
- 5. Cayhill; Environmental Health and Safety Audits, 8th Edition
- 6. Kelloway E. K., Francis, L., & Montgomery, J. (2008). Management of occupational health and safety (4th ed.). Scarborough, ON: Thompson Learning



Occupational Health Safety and Enviroment

Specialization	Occupational Health, Safety and Environment
Course Number	22401223
Course Title	SAFTY MANAGEMENT SYSTEM 2
Credit Hours	(3)
Theoretical Hours	(3)
Practical Hours	(0)



جامعة البلقاء التطبيقية

Brief Course Description:

 strategies to implement a safety management program, workplace inspection methods, pre-inspection planning, Elements to inspect and review, Workplace inspection, Appraise inspection results, Examine job hazard analysis, other proactive hazard identification methods

Course Objectives:

This course aims at:

- 1. Examine workplace inspection methods
- 2. Examine pre-inspection planning
- 3. Summarize auditor selection process
- 4. Analyze elements to inspect and review
- 5. Examine the value of safety management system audit
- 6. Apply elements of an audit program
- 7. Examine audit planning activities
- 8. Implement the process for conducting an audit
- 9. Appraise inspection results
- 10. Prepare the audit report
- 11. Propose audit follow up activities

Detailed Course Description:



جامعة البلغاء التطبيغية

Unit Number	Unit Name	Unit Content	Time Needed
1.	workplace	 Identify workplace inspection terminology 	
	inspection	 Discuss the costs of workplace injuries 	
	methods	 Compare formal and informal inspections 	
		 Discuss national legislation regarding 	
		workplace inspections	
		✤ Discuss roles and responsibilities to	
•	• • • • • • • • • • • • • • • • • • • •	workplace inspections	
2.	pre-inspection	 Examine required training for workplace 	
	planning	inspectorsDiscuss the intervals for formal and informal	
		inspections	
		 Examine the elements of an inspection report 	
		form	
		 Review workplace hazards 	
		 Review workprace nazards Develop an inspection report form 	
3.	auditor selection	 Develop an inspection report form Define personal attributes desired in an 	
J.	process	auditor	
	process	 Describe the knowledge and skills required to 	
		audit	
		 Determine education and work experience 	
		required to audit	
		 Establish auditor evaluation techniques 	
4.	elements to	 Examine workplace documentation to review 	
	inspect and	 Discuss worker concerns and interviews 	
	review	 Discuss hazardous processes 	
		 Identify housekeeping issues 	
		 Participate in a formal workplace inspection 	
5.	the value of	 Examine the concept & elements of a Safety 	
	safety	Management System	
	management	 Discuss stakeholder involvement 	
	system audit	 Examine loss control strategies 	
		 Discuss performance measurement 	
		techniques	
		 Discuss the benefits of a Safety Management 	
		System audit	
6.	elements of an	 Identify audit terminology 	
	audit program	 Determine objectives and extent of the audit 	
		program	
		 Define audit program responsibilities and 	
		staffing	
		 Implement implementation procedures for the 	
	<u> </u>	audit program	



جامعة البلغاء التطبيغية

		 Identify audit program monitoring methods
7. audit planning		 Determine audit objectives including scope
	activities	and criteria
		 Examine audit feasibility
		 Construct the audit team
		 Develop the audit plan
		 Examine working papers
8.	the process for	 Describe opening meetings
	conducting an	 Describe familiarization tours
	audit	 Describe team and auditee meetings
		 Analyze documentation
		 Perform observation tours
		 Conduct interviews
		 Prepare audit conclusions
		 Describe closing meetings
9.	Appraise	 Compare inspection results and legislated
	inspection results	standards
	inspection results	 Discuss required hazard controls
		 Recommend control implementation
		 Discuss follow up methods
		 Identify workplace communication of results
		 Improve inspection report form
10.	Prepare the audit	Determine extent of recommendations to be
10.	report	made
	- · p · · · ·	 Discuss liability related to recommendations
		 Identify audit report requirements
11.	Propose audit	 Examine action plan requirements
110	follow up	 Determine follow up activities
	activities	 Present group audit presentation





Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	//
	Second Exam	20%	/
	Final Exam	50%	/
Homework and Projects		10%	

Teaching Methodology:

- Laboratory sessions
- Help Sessions

Text Books & References:

Textbook:

- 1. Dubrin, A. J. & Geerinck, T. (2008). *Human Relations: Interpersonal Job Oriented Skills* (3rd ed). Toronto, ON. Pearson Education Canada Inc
- 2. Kelloway, E. K., & Francis, L. (2008). *Management of Occupational Health and Safety* (4th ed.). Scarborough, ON, Canada: Thompson Learning

References

- 1. Basaraba, B. M. (1999). *IPT's safety first handbook: Book one*. Edmonton, ALTA, Canada: IPT Publishing and Training
- 2. Setting up an Occupational Health and Safety Program located at:

http://www.lrws.gov.sk.ca/Default.aspx?DN=6c991c55-55f3-4c86-89af-343b37e88ce3



Occupational Health Safety and Enviroment

Specialization	Occupational Health, Safety and Environment
Course Number	22401241
Course Title	Health Hazard and Industrial Hygiene I
Credit Hours	(3)
Theoretical Hours	(3)
Practical Hours	(0)



جامعة البلقاء التطبيقية

Brief Course Description:

Main principles of industrial hygiene, occupational contamination, chemical hazards, Examine biological hazards, Ionizing and non-ionizing radiation hazards, Identify noise hazards and noise Calculations, thermal stressors, Examine respiratory protection programs, air sampling, Specific occupational disease and injury

Course Objectives:

This course aims at:

- 1. Identify main principles of industrial hygiene
- 2. Examine occupational contamination
- 3. Examine chemical hazards
- 4. Examine biological hazards
- 5. Identify Ionizing and non-ionizing radiation hazards
- 6. Identify noise hazards and noise Calculations
- 7. Identify thermal stressors
- 8. Examine respiratory protection programs
- 9. Examine air sampling techniques
- 10. Examine specific occupational disease and injury

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جامعة البلغاء التطبيغية

Detailed Course Description:

Unit Number	Unit Name	Unit Content	Time Needed
1.	main principles	 Identify the main industrial organizations 	
	of industrial	who influence industrial hygiene	
	hygiene	 Identify key principles of industrial hygiene 	
		 Explain basic industrial hygiene terminology 	
		 Recognize concepts behind occupational exposure limits 	
		 Identify nationally accepted occupational 	
		exposure limits	
		 Perform time weighted averages and 	
		conversion calculations	
2.	occupational	 Differentiate the entry routes of 	
	contamination	contamination	
		 Recognize the physical forms of 	
		contaminants	
		 Discuss human anatomy as it relates to 	
		elimination of chemical contaminants	
		 Discuss human anatomy as it relates to 	
		elimination of particulate contamination	
		 Examine contamination limits and 	
		occupational exposure limits	
		 Perform basic conversion calculations 	
		 Discuss air exchange 	
		 Perform basic air exchange calculations 	
3.	chemical hazards	 Examine classes of toxins 	
		 Identify key terminology related to chemicals 	
		and Workplace Hazardous Materials	
		Information System (WHMIS)	
		 Identify toxicity factors 	
		✤ Identify chemical controls	
		 Discuss safe handling procedures 	
		✤ Examine key elements of a chemical safety	
		program	
4.	biological	 Examine the types of biological hazards 	
	hazards	 Describe the host-agent relationship 	
		 Discuss biological controls 	
		 Examine key elements of a biological safety 	



جامعة البلغاء التطبيغية

		program
5.	Ionizing and non- ionizing radiation	 Identify sources and effects of ionizing radiation
	hazards	 Recognize controls for ionizing radiation exposure
		 Identify controls for ionizing radiation exposure radiation Recognize controls for non-ionizing radiation
		 Discuss exposure standards for radiation Examine key elements of a radiation safety program
6.	noise hazards and noise	 Describe the properties of sound Discuss the anatomy of hearing and effects of
	Calculations	 noise on hearing Identify the basics of audiometric testing Examine the key elements of a hearing conservation plan Review the principles of sound level testing Review noise hazard controls Perform noise calculations Discuss decibels and noise scales Examine noise reduction ratings (NRR) and hearing protection Perform basic NRR/hearing protection calculations Discuss multiple machine noise ratings Perform basic multiple noise (dB) calculations
7.	thermal stressors	 Discuss ppm and mg/m³ readings Recognize heat stressors and effects on human body Identify heat stress Recognize cold stressors and effects on human body Identify controls to prevent cold stress
		 Examine monitoring techniques for thermal stress Perform thermal calculations



جامعة البلغاء التطبيغية

8.respiratory protection programs9.air sampling techniques10.specific occupational disease and injury		 Identify elements of respiratory protection programming Compare classes of respiratory protection Discuss respirator selection guidelines Examine fit testing protocol
		 Discuss indoor air quality Discuss confined space air testing Compare air sampling methods and equipment Discuss air sampling standards and protocols Describe laboratory analysis techniques Describe laboratory analysis techniques Discuss ventilation methods Perform air sampling calculations
		 Examine skin diseases/injury Examine lung diseases/injury Examine eye disease/injury Discuss additional target organs disease/injury





Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	//
	Second Exam	20%	//
	Final Exam	50%	//
Homework and Projects		10%	

Teaching Methodology:

- Laboratory sessions
- Help Sessions

Text Books & References:

Textbook:

• Nims, D. (1999). Basics of industrial hygiene. (1st ed.). New York, NY: John Wiley & Sons

References

- Plog, Barbara. (2001). *Fundamentals of industrial hygiene* (5th ed.). National Safety Council
- Kelloway, E. K., & Francis, L. (2008). Management *of occupational health and safety* (4th ed.). Scarborough, ON: Thompson Learning



Occupational Health Safety and Enviroment

Specialization	Occupational Health, Safety and Environment		
Course Number	22401242		
Course Title	Health Hazard & Industrial Hygiene II		
Credit Hours	(3)		
Theoretical Hours	(3)		
Practical Hours	(0)		



جامعة البلقاء التطبيقية

Brief Course Description:

General physical hazards, material processing hazards, fall hazards, basic electrical hazards, ergonomic hazards, basics of workplace stress, shift work, workplace violence workplace discrimination and harassment

Course Objectives:

This course aims at:

- 1. Identify general physical hazards
- 2. Examine material processing hazards
- 3. Examine fall hazards
- 4. Examine basic electrical hazards
- 5. Discuss ergonomic hazards
- 6. Discuss the basics of workplace stress
- 7. Examine shift work
- 8. Examine workplace violence
- 9. Examine workplace discrimination and harassment



جامعة البلغاء التطبيغية

Detailed Course Description:

Unit Number	Unit Name	Unit Content	Time Needed
1.	general physical	 Recognize physical hazards 	
	hazards	 Discuss effects of physical hazards 	
		 Discuss workplace sources for physical hazards 	
		 Discuss physical hazard training requirements 	
2.	material	 Discuss potential machine operation risks 	
	processing	 Examine specific hazards related to material 	
	hazards	processing	
		 Indicate workplace design influences 	
		 Examine material processing controls 	
		 Discuss implementation of process controls 	
		 Examine specific training requirements for 	
		material processing	
3.	fall hazards	 Define fall and fall arrest 	
		 Identify sources of fall hazards 	
		 Examine hierarchy of fall hazard controls 	
		 Examine personal fall arrest equipment 	
		 Discuss factors influencing selection of fall 	
		protection	
		 Discuss fall arrest training 	
4.	basic electrical	 Discuss principles of electricity 	
	hazards	 Discuss national electrical codes 	
		 Identify sources of electrical hazards 	
		 Examine hierarchy of electrical hazard controls 	
		 Define lock out procedures and their 	
		relationship to electrical work	
5.	ergonomic	 Discuss the basic causes of musculoskeletal 	
	hazards	injury	
		Identify the progression of musculoskeletal	
		injuries	
		 Discuss basic workplace sources of ergonomic 	
		hazards	



جامعة البلغاء التطبيغية

]	Identify basic computer station requirements
		 Develop a computer station ergonomic
		assessment form
		 Identify good lifting techniques
6.	the basics of	✤ Define occupational stress
	workplace	 Outline signs and symptoms of stress
	stress	 Describe the impact on physical strains and
		injuries
		 Discuss stress reduction strategies
7.	shift work	 Define what shift work is
		 Discuss the types of industry affected by shift
		work
		 Discuss the safety issue arising from shift work
		 Examine the adverse health effects of shift
		work
		 Discuss workplace control methods to alleviate
		shift work health and safety issues
8.	workplace	 Define workplace violence
	violence	 Identify national legislation related to violence
		 Identify industries at high risk for violence
		 Examine workplace security procedures
		 Examine workplace training related to violent
		events
		 Examine protocols necessary to develop violent
		event emergency planning
		 Develop a violence drill plan
9.	workplage	 Define workplace harassment
9.	workplace discrimination	 Define workplace narassment Identify national legislation related to
	and harassment	discrimination and harassment
		 Examine harassment workplace training
		 Examine protocols necessary to develop
		harassment policies and procedures
		 Examine procedures for harassment
		investigations
		 Discuss harassment investigation
		documentation and reporting
		 Examine employee assistance planning for





Ī		post-harassment events Identify harassment events and interventions	
	•	identify harassment events and interventions	





Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	//
	Second Exam	20%	//
	Final Exam	50%	//
Homework and Projects		10%	

Teaching Methodology:

- ✤ Laboratory sessions
- Help Sessions

Text Books & References:

Textbook:

1. Kelloway, E. K., Francis, L. (2008) *Management of Occupational Health and Safety* (4th ed). Scarborough, ON: Thompson Learning.

References

1. Basaraba, B. M. (1999). *IPT's safety first handbook: Book one*. Edmonton, ALTA, Canada: IPT Publishing and Training



Occupational Health Safety and Enviroment

Specialization	Occupational Health, Safety and Environment		
Course Number	22401115		
Course Title	Occupational Behavior and Leadership		
Credit Hours	(2)		
Theoretical Hours	(2)		
Practical Hours	(0)		



جامعة البلقاء التطبيقية

Brief Course Description:

Individual behaviour relates to performance, work related values, communication barriers to occupational health and safety, leadership and motivation relates to performance, organizational culture safety change, organizational culture safety change, Leadership skills and responsibilities for HSE person, organizational positive political skills

Course Objectives:

This course aims at:

- 2. Discuss how individual behaviour relates to organization performance
- 3. Examine work related values
- 4. Describe the communication barriers to occupational health and safety
- 5. Analyse How Motivation Relates to Performance
- 6. Analyze Organizational and Leadership Behaviour
- 7. Explain how leadership relates to performance
- 8. Leadership skills and responsibilities for HSE person
- 9. Discuss organizational culture safety change
- 10. Describe organizational positive political skills



جامعة البلقاء التطبيقية

Detailed Course Description:

Unit Number	Unit Name	Unit Content	Time Needed
1.	how individual behaviour relates to organization performance	 Review organization behaviour Define perception Discuss the impact of perceptual errors Define personality Recognize how personality influences behaviour Discuss the dimensions of emotional intelligence 	
2.	work related values	 Examine values Compare differences in international values Examine Jordanian workplace values Discuss job satisfaction 	
3.	communication barriers to occupational health and safety	 Describe the communication process Describe the barriers to communication Identify strategies to overcome communication barriers 	
4.	Analyse How Motivation Relates to Performance	 Apply needs theories to explain how motivation is affected by needs Compare two process theories of motivation Apply equity theory to explain how individuals respond to rewards Describe a Safety Reward Program Review the Benefits of a Safety Reward Program Review the Drawbacks of a Safety Reward Program 	
5.	Analyze Organizational and Leadership Behaviour	 Describe an organization Describe a learning organization Examine challenges in the workplace at the individual level Examine challenges in the workplace at the group level Examine challenges in the workplace at the organizational level Explain learning concepts related to a learning organization 	



جامعة البلغاء التطبيغية

6.	Explain how leadership relates to performance Leadership skills and responsibilities for HSE person	 Describe leadership trait theories Explain the major differences between transactional and transformational leaders Describe the ways leadership disperses Into an organization Identify and understand their own leadership style Practice methods to assess the personality types of their crew and recognize how to adapt their leadership style to be effective in the supervision of and relationship building with their crew Learn how to identify and develop their crew's informal (natural) leaders as peer mentors Understand and explain the importance of job pre - planning Know and explain why pre-planning tools of SMP, JSEA, JRA, JSA, Permit to Work etc. are essential in assessing and mitigating safety and health risks Demonstrate through role play and case studies how to effectively engage crew members in the practicing of the policies and procedures outlined in the pre-planning tools Complete the capstone scenario of managing mock SIMOPS operations to demonstrate proficiency in practicing situational 	
		proficiency in practicing situational awareness that incorporates each of the key learning objectives of the course.	
8.	Discuss organizational culture safety change	 Define organizational safety culture Discuss what prompts organizational safety change Describe different change models Examine resistance to change and ways to overcome Discuss contemporary issues in health and safety 	

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جامعة البلغاء التطبيغية

		 Explain how organizations maintain and strengthen their safety culture Recognize the criteria for determining ethical decisions
9.	Describe organizational positive political skills	 Discuss the importance of a positive impression Explain business etiquette Discuss forms and sources of organizational power Describe techniques for building relationships with managers and co-workers Recognize common political blunders Discuss change theory Describe the role of change agent





Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	//
	Second Exam	20%	//
	Final Exam	50%	//
Homework and Projects		10%	
Discussions and lecture			
Presentations			

Teaching Methodology:

- ✤ Lecture
- Help Sessions

Text Books & References:

Textbook:

1. Langton, N., Langton, N. & Robbins, S. P. (2006). Organizational *Behaviour* (4th ed.). Toronto: ON: Pearson Education Canada.

References

1. Stewart, J.M. (2002). *Managing for world class safety* (1st ed.). New York, NY: Wiley-Interscience.



Specialization	Occupational Health, Safety and Environment		
Course Number	22401222		
Course Title	Environmental Management Systems		
Credit Hours	(3)		
Theoretical Hours	(3)		
Practical Hours	(0)		



جامعة البلقاء التطبيقية

Brief Course Description:

principles behind pollution prevention through application of waste minimization, and recycling, technologies to mitigate pollution at source, pathway and receptor, principles of Environmental Management System's (EMS) (International Organization for Standardization (ISO) 14000, Responsible Care, strategies for various industrial operations, hazardous waste materials management and emergency strategies

Course Objectives:

This course aims at:

- 1. Examine the principles behind pollution prevention through application of waste minimization, and recycling
- 2. Examine technologies to mitigate pollution at source, pathway and receptor
- 3. Describe the principles of Environmental Management System's (EMS) (International Organization for Standardization (ISO) 14000, Responsible Care
- 4. Identify management strategies for various industrial operations
- 5. Assess hazardous waste materials management and emergency strategies



جامعة البلغاء التطبيغية

Detailed Course Description:

Unit Number	Unit Name	Unit Content	Time Needed
1.	the principles behind pollution prevention through application of waste minimization, and recycling	 Discuss Jordanian and International environmental legislation Define pollution prevention and how it is applied in environmental regulation Discuss environmental emissions standards Examine waste minimization strategies Examine recycling initiatives and programs Discuss the importance of industry stewardship and regulation in recycling initiatives 	
2.	technologies to mitigate pollution at source, pathway and receptor	 Differentiate technologies to mitigate pollution for solid, liquid, gaseous sources Describe continuous and periodic monitoring schemes for solid liquid and gaseous sources Describe technologies to intercept surface water, groundwater, solid, and gaseous pathways Compare online and periodic monitoring schemes for the various pathways Describe methods for mitigation of pollution at receptors 	
3.	the principles of Environmental Management System's (EMS) (International Organization for Standardization (ISO) 14000, Responsible Care	 Discuss ISO 14000 Identify the impact ISO 14000 and national standards have on Jordanian industries Discuss environmental impact reviews 	
4.	management strategies for	 Identify waste streams of industry - Pulp and Paper 	



جامعة البلقاء التطبيقية

	various industrial operations	 Identify waste streams of industry – Chemical manufacture Identify waste streams of industry – Agricultural operations Identify waste streams of industry – oil and gas Identify waste streams of industry – mining Identify waste streams of industry – construction
5.	Assess hazardous waste materials management and emergency strategies	 Discuss hazardous substance waste dangerous storage Discuss hazardous waste technology Analyze environmental response and containment strategies Prepare an emergency response plan Identify reporting and documentation requirements
6.		

Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	//
	Second Exam	20%	//
	Final Exam	50%	//
Homework and Projects		10%	
Discussions and lecture			
Presentations			

Teaching Methodology:

- ✤ Lecture
- Help Sessions

Text Books & References:

Textbook:

No suggested textbooks, instructors should search theirown





<u>References</u>

- U. S Environmental Protection Agency:
- http://www.epa.gov/
- Environment Canada: http://www.ec.gc.ca



Specialization	Occupational Health, Safety and Environment
Course Number	22401216
Course Title	Policies and Safe Workplace Procedures
Credit Hours	(3)
Theoretical Hours	(3)
Practical Hours	(0)



جامعة البلقاء التطبيقية

Brief Course Description:

Current policies and procedures designs ,corporate health and safety commitment statement, chemical hazard policy and procedure, personal protective equipment policy and procedure, incident policy, procedure and reporting form , inspection policy, procedure and reporting form, emergency fire evacuation policy and procedures, program evaluation strategies, cost of intervention and prevention strategies

Course Objectives:

This course aims at:

- 1. Examine current policies and procedures designs
- 2. Design a corporate health and safety commitment statement
- 3. Develop a chemical hazard policy and procedure
- 4. Design a personal protective equipment policy and procedure
- 5. Develop an incident policy, procedure and reporting form
- 6. Develop an inspection policy, procedure and reporting form
- 7. Examine emergency fire evacuation policy and procedures
- 8. Discuss program evaluation strategies
- 9. Assess the cost of intervention and prevention strategies



جامعة البلغاء التطبيغية

Detailed Course Description:

Unit Number	Unit Name	Unit Content	Time Needed	
1.	current policies and procedures designs	 Define policy Examine components of policies Review a general occupational health and safety policy Define procedure Examine components of procedures Discuss examples of industrial procedures 		
2.	corporate health and safety commitment statement	 Discuss examples of industrial procedures Discuss Jordan's Safety Law Discuss corporate roles and responsibilities for health, safety and environment Develop a corporate health, safety and environmental statement 		
3.	chemical hazard policy and procedure	 Review chemical hazards Discuss the hierarchy of hazard controls Design a general chemical hazard policy Design a specific chemical handling procedure 		
4.	personal protective equipment policy and procedure	 Define personal protective equipment Review the types of personal protective equipment Review a variety of personal protective equipment policies and procedures Develop a specific personal protective equipment policy and procedure 		
5.	incident policy, procedure and reporting form	 Discuss the steps to managing health and safety programs Identify the purpose of an occupational health and safety programs Define regulatory requirements for incident reporting Discuss incident reporting criteria Design an incident investigation procedure Design an incident reporting form 		
6.	inspection policy, procedure and reporting form	 Define regulatory requirements for workplace inspections Discuss inspection criteria Design an inspection policy 		



جامعة البلقاء التطبيقية

		 Design an inspection procedure Design an inspection reporting form 	
7.	emergency fire evacuation policy and procedures	 Design an inspection reporting form Identify emergency fire plans Discuss the roles and responsibilities related to fire evacuation Examine an industry fire evacuation policy and procedure 	
8.	program evaluation strategies	 Define program evaluation Define the purpose of evaluation Discuss program evaluation strategies Identify methods to collect information 	
9.	Assess the cost of intervention and prevention strategies	 Define cost benefit Define cost benefit trade off / safety break point Define the cost benefit analysis process Determine the cost benefit trade off / safety break point 	

Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	//
	Second Exam	20%	//
	Final Exam	50%	//
Homework and Projects		10%	
Discussions and lecture			
Presentations			

Teaching Methodology:

- ✤ Lecture
- Help Sessions

Text Books & References:

Textbook:

- 1. Dubrin, A. J. & Geerinck, T. (2008). *Human Relations: Interpersonal Job Oriented Skills* (3rd ed). Toronto, ON. Pearson Education Canada Inc
- 2. Kelloway , E. K., & Francis, L. (2008). *Management of Occupational Health and Safety* (4th ed.). Scarborough, ON, Canada: Thompson Learning.



جامعة البلقاء التطبيقية

<u>References</u>

- 1. Basaraba, B. M. (1999). *IPT's safety first handbook: Book one*. Edmonton, ALTA, Canada: IPT Publishing and Training
- 2. Setting up an Occupational Health and Safety Program located at: <u>http://www.lrws.gov.sk.ca/Default.aspx?DN=6c991c55-55f3-4c86-89af-343b37e88ce3</u>



Specialization	Occupational Health, Safety and Environment			
Course Number	22401232			
Course Title	Permit Work and High risk tasks			
Credit Hours	(3)			
Theoretical Hours	(2)			
Practical Hours	(2)			



جامعة البلغاء التطبيغية

Brief Course Description:

Confined Space Entry, Lockout/Tag out, Hot work, Cranes, Excavations

Course Objectives:

This course aims at:

- 1. Examine Confined Space Entry
- 2. Examine Lockout/Tag out
- 3. Discuss hot work
- 4. Cranes
- 5. excavations



جامعة البلغاء التطبيغية

Detailed Course Description:

Unit Number	Unit Name	Unit Content	Time Needed
1.	Confined	 Define a confined space 	
	Space Entry	 Compare hazardous and non-hazardous 	
		confined spaces	
		 Examine potential hazards and control methods 	
		of confined space entries	
		 Examine pre-entry training and required 	
		equipment based on potential hazards	
		 Examine on-going entry requirements 	
		 Examine post entry requirements 	
		 Discuss emergency retrieval plans 	
		 Examine industrial confined space entry 	
		permits	
2.	Lockout/Tag	Define Lock out /Tag out	
	out	 Identify hazards associated with lock out permit 	
		procedures (electrical, hydraulic, computer	
		overrides etc.)	
		 Examine hazard specific processes and 	
		procedures required for proper lockout	
		 Examine individual worker training and 	
		equipment for lockout	
		 Examine industrial lock out permits 	
		 Discuss emergency lock removal 	
		 Discuss equipment tag out procedures 	
		 Identify best practices for tag out of equipment 	
3.	Discuss hot	Define hot work	
	work	 Identify tasks and hazards associated with hot 	
		work procedures	
		 Discuss basic fire watch and containment 	
		equipment associated with hot work procedures	
		 Discuss industrial best practice associated with 	
		hot work procedures	
		 Discuss the validity to implementing a hot work 	
4.	Cranes	 identify the most common crane hazards 	



جامعة البلغاء التطبيغية

	 Identify how take the necessary steps to avoid those hazards
5. excavations	 Identify the most common excavation hazards Identify how take the steps necessary to avoid those hazards

Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	//
	Second Exam	20%	//
	Final Exam	50%	//
Homework and Projects		10%	
Discussions and lecture			
Presentations			

Teaching Methodology:

- ✤ Lecture
- Help Sessions

Text Books & References:

Textbook:

1. Kelloway E. K., Francis, L., & Montgomery, J. (2008). Management of occupational health and safety (4th ed.). Scarborough, ON: Thompson Learning



Specialization	Occupational Health, Safety and Environment	
Course Number	22401233	
Course Title	Risk analysis and Hazard Control	
Credit Hours	(3)	
Theoretical Hours	(2)	
Practical Hours	(2)	



جامعة البلغاء التطبيغية

Brief Course Description:

Workplace hazard classifications, basic hazard identification methods, risk and risk analysis, Hazard methods of hazard control

Course Objectives:

This course aims at:

- 1. Identify workplace hazard classifications
- 2. Discuss basic hazard identification methods
- 3. Examine risk and risk analysis
- 4. Methods of hazard control
- 5. Personal Protection Equipment

Detailed Course Description:



جامعة البلغاء التطبيغية

Unit Number	Unit Name	Unit Content	Time Needed
1.	workplace	 Define hazard 	
	hazard	 Recognize types of physical hazards 	
	classifications	 Review effects of physical hazards 	
		 Recognize types of biological hazards 	
		 Identify effects of biological hazards 	
		 Recognize chemical hazards 	
		 Identify effects of chemical hazards 	
		 Define psychosocial hazards 	
		 Outline signs and symptoms of psychosocial 	
		hazards	
2.	basic hazard	 Discuss proactive hazard identification 	
	identification	methods	
	methods	 Discuss reactive hazards identification methods 	
		 Identify how workplace illness and injuries 	
		impact the workplace	
3.	risk and risk	 Differentiate entry routes into the human body 	
	analysis	 Identify basic environmental impact of hazards 	
		 Define risk 	
		 Define severity 	
		 Define frequency 	
		 Define probability 	
		 Discuss risk analysis 	
		 Perform risk calculations using case studies 	
4.	Methods of	Define hazard control	
	hazard	 Discuss importance of the hierarchy of controls 	
	control	 Examine elimination and substitution controls 	
		 Examine engineering controls 	
		 Examine administrative controls 	
5.	Personal	 Discuss types of personal protective equipment 	
	Protection	(PPE)	
	Equipment	 Examine selection process for PPE 	
		 Compare specific types of PPE 	
		 Discuss basics of worker PPE training 	
		 Discuss the importance of a Certified PPE 	
		 List the available types, application and 	
		limitations of PPE	



جامعة البلغاء التطبيغية

	 Identify the Employer and Employee responsibilities to obtain and use PPE List the Inspection and use criteria for PPE, including the manufacturer's recommendations Show knowledge of specific training and retraining requirements for PPE usage and employer specific requirements. Demonstrate the donning and doffing of basic common PPE 	
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Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	//
	Second Exam	20%	//
	Final Exam	50%	//
Homework and Projects		10%	

Teaching Methodology:

- Laboratory sessions
- Help Sessions

Text Books & References:

Textbook:

1. Kelloway, E. K., Francis, L., and Montgomery, J. (2008). *Management of occupational health and safety (4th ed.)*. Scarborough, ONT, Canada: Thompson Learning

References:

• Advance Education, Employment and Labour (Sask Labour) has a number of other publications regarding noise and hearing protection.

http://www.lrws.gov.sk.ca/Default.aspx?DN=2828b462-60c1-454c-9969-51454486a9c6

- Canadian Center for Occupational Health and Safety: <u>www.ccohs.ca</u>
- Occupation Safety and Health Administration: <u>www.osha.gov</u>



Specialization	Occupational Health, Safety and Environment	
Course Number	22401234	
Course Title	Emergency Action Plan and Response	
Credit Hours	(3)	
Theoretical Hours	(2)	
Practical Hours	(2)	



جامعة البلقاء التطبيقية

Brief Course Description:

Key Steps to Emergency Preparedness, Establishing the Planning Team, Identifying Potential Emergencies and Assessing Risk, Assessing Your Organization's Emergency Response Capabilities, Building the Emergency Response Plan, Implementing the Plan: Preparing to Respond, Evaluating Effectiveness and Continuous Improvement, Emergency Medical Response

Course Objectives:

This course aims at:



جامعة البلغاء التطبيغية

Detailed Course Description:

Unit	Unit Content	Time
Number		Needed
1.	The Key Steps to Emergency Preparedness	
2.	Establishing the Planning Team	
3.	Identifying Potential Emergencies and Assessing Risk	
4.	Assessing Your Organization's Emergency Response Capabilities	
5.	Building the Emergency Response Plan	
6.	Implementing the Plan: Preparing to Respond	
7.	Evaluating Effectiveness and Continuous Improvement	
8.	 Emergency Medical Response Introduction to EMS Systems Legal and Ethical Issues Well-Being of the EMR The Human Body Lifting, Moving, and Positioning Patients Patient Assessment Caring for Medical Emergencies Bleeding, Shock, and Soft Tissue Injuries 	

Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	/
	Second Exam	20%	//
	Final Exam	50%	//
Homework and Projects		10%	
Discussions and lecture			
Presentations			



جامعة البلغاء التطبيغية

Teaching Methodology:

- ✤ Lecture
- Help Sessions

Text Books & References:

Textbook:

 Introduction to emergency Management, 4th Edition, Haddow, G., Pullosk, j. and Coppola, D., 2011



جامعة البلغاء التطبيغية

Specialization	Occupational Health, Safety and Environment	
Course Number	22401235	
Course Title	Incidents Analysis and investigations	
Credit Hours	(3)	
Theoretical Hours	(2)	
Practical Hours	(2)	



جامعة البلقاء التطبيقية

Brief Course Description:

 Incident legislation, incident investigation theories, pre-incident preparation, collection of physical evidence, witness evidence, documentary evidence, incident causation, postincident reports, investigation findings.

Course Objectives:

This course aims at:

- 1. Discuss incident legislation
- 2. Examine incident investigation theories
- 3. Examine pre-incident preparation
- 4. Examine collection of physical evidence
- 5. Examine witness evidence
- 6. Examine documentary evidence
- 7. Analyze incident causation
- 8. Assemble post- incident reports
- 9. Propose investigation findings



جامعة البلقاء التطبيقية

Detailed Course Description:

Unit Number	Unit Name	Unit Content	Time Needed
1.	incident	 Recognize incident terminology 	
	legislation	 Discuss relevant Jordan safety legislation 	
		• Examine criteria for performing an	
		investigation	
		 Discuss workplace investigation roles and responsibilities 	
		✤ Identify the role of Jordan's health and	
		safety authorities	
2.	incident	Discuss pyramid models of accident	
	investigation	causation	
	theories	\clubsuit Identity the principles of early domino	
		models	
		 Discuss event and fault tree analysis models 	
		\clubsuit Discuss the principles of psychological	
		models	
		 Examine principles of behaviour-based 	
		safety models	
		 Examine the principles of energy models Discussion invites the principles of energy models 	
3.	pre-incident preparation	 Discuss incident policies and procedures Recognize key stakeholders 	
	preparation	 ✤ Recognize key stakeholders ✤ Examine on and off site notification 	
		protocols	
		 Examine incident investigator training 	
		✤ Examine in-house emergency response	
		training	
4.	collection of	 Examine scene security 	
	physical	 Examine identification of scene evidence 	
	evidence	 Examine equipment evidence 	
5.	witness	Identify key witnesses	
	evidence	 Discuss interviewing technique 	
		 Discuss comparing witness evidence 	
6.	documentary	 Identify key internal documentary evidence 	
	evidence	 Identify key external documentary evidence 	
		◆ Examine documentary evidence and the	
		relationship with due diligence	
<u> </u>			



جامعة البلغاء التطبيغية

7.	incident	 Examine direct causes 		
	causation	 Examine indirect causes 		
		 Determine root cause 		
		 Propose recommendations and controls 		
8.	Assemble post-	 Examine current preventative strategies 		
	incident reports	 Examine incident documents 		
		 Develop an incident investigation form 		
		Prepare an incident report using a case study		
9.	Propose	 Identify key implementation stakeholders 		
	investigation	 Propose corrective action 		
	findings	 Examine monitoring and quality improvement initiatives 		
		 Identify protocols to ensure safety responsibility 		



جامعة البلغاء التطبيغية

Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	//
	Second Exam	20%	//
	Final Exam	50%	/
Homework and Projects		10%	
Discussions and lecture			
Presentations			

Teaching Methodology:

- ✤ Lecture
- ✤ Help Sessions

Text Books & References:

Textbook:

- 1. Vincoli, Jeffrey (1994) *Basic Guide to Accident Investigation and Loss Control*, John Wiley & Sons
- 2. Dyck , D. (2007) *Occupational Health and Safety: Theory, Strategy and Industry Practice* Canada, Lexis-Nexis.

References

- 1. Stephans, R. (2004) *System Safety for the 21st Century,* Hoboken, New Jersey, John Wiley & Sons, Inc
- 2. Hagan, P., Montgomery, J., O'Reilly, J. (2009) *Accident Prevention Manual for Business and Industry*, U.S.A., National Safety Council
- 3. Kelloway, E. K. and Francis, L. (2008) Management of occupational health and safety
- 4. Video: a.<u>http://www.metacafe.com/watch/884391/forklift_accident/</u>



Specialization	Occupational Health, Safety and Environment	
Course Number	22401231	
Course Title	Fire Prevention and Protection	
Credit Hours	(3)	
Theoretical Hours	(2)	
Practical Hours	(2)	



جامعة البلقاء التطبيقية

Brief Course Description:

Basics of fire chemistry and behaviour, causes of fire, Fire & Building Code requirements, fire detection systems, fire control systems, and emergency preparedness fire plan.

Course Objectives:

This course aims at:

- 1. Review the basics of fire chemistry and behaviour
- 2. Discuss causes of fire
- 3. Discuss Fire & Building Code requirements
- 4. Explain fire detection systems
- 5. Explain fire control systems
- 6. Develop an emergency preparedness fire plan
- 7. Evaluate a fire plan



جامعة البلقاء التطبيقية

Detailed Course Description:

Unit Number	Unit Name	Unit Content	Time Needed
1.	basics of fire chemistry and	 Define fire Decomposition the fire triangle 	
	behaviour	 Recognize the fire triangle State the fire tetrahed way 	
Jona viour		 State the fire tetrahedron Identifie the alagang of firm 	
		 Identify the classes of fire List the stores of fire 	
		 List the stages of fire Discuss fire terminology 	
		 Discuss fire terminology Identify ignition courses 	
2.	causes of fire	 Identify ignition sources Define flack point and ignition points 	
		 Define flash point and ignition points Descention static electricity 	
		 Recognize static electricity Recognize enonteneous ignition 	
		 Recognize spontaneous ignition Evaluate the uses of chemicals which pass 	
		 Explain the uses of chemicals which pose a fire hazard 	
		 Explain fire information contained within Material Safety Data Sheeta (MSDS) 	
		Material Safety Data Sheets (MSDS,	
2	Fine & Duilding	SDS) Recognize the objectives of the	
3.	Fire & Building Code	Recognize the objectives of the Jordanian Code No. 15: Fire	
	requirements	Review specific requirements of the	
	•	Jordanian Code No. 27: Fire Alarm	
		Systems	
		 Review specific requirements in the 	
		applicable Jordanian Building Codes	
		 Discuss regulators in fire safety 	
		 Define employer responsibility for fire 	
		safety in the work place	
4.	fire detection	 Identify automatic fire detection systems 	
	systems	 Describe infared detection 	
	59500115	 Recognize ultraviolet flame detectors 	
		 Explain thermal detectors 	
		 Describe smoke detectors 	
		 Explain air sampling detectors 	
		 Define fire alarm systems 	
		 Identify the inspection, maintenance and 	
		testing of fire alarm systems	
5.	fire control	 Define automatic sprinkler systems 	
	systems	T T T	



جامعة البلغاء التطبيغية

			7
		 Identify carbon dioxide systems 	
		✤ Recognize halon and halon alternative	
		systems	
		 Discuss portable fire extinguishers 	
		 Identify fire extinguishers by type 	
		Describe the operation of fire extinguishers	
		 Identify the inspection, maintenance and 	
		testing of fire protection equipment	
6	Develop an		
6.	-	 Define automatic sprinkler systems 	
	emergency	 Recognize the elements of a fire plan 	
	preparedness fire	 Review regulatory requirements for a fire 	
	plan	plan	
		\clubsuit Describe the requirements for national	
		fire code and Safety Labour Law	
		 Develop an emergency response plan 	
7.	fire plan	✤ Define the purpose of evaluating fire	
		plans	
		 Determine evaluation time lines 	
		11	
		legislation	
		 Determine evaluation frequency 	
		 Implement appropriate changes 	



جامعة البلغاء التطبيغية

Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	//
	Second Exam	20%	//
	Final Exam	50%	/
Homework and Projects		10%	
Discussions and lecture			
Presentations			

Teaching Methodology:

- ✤ Lecture
- Help Sessions

Text Books & References:

Textbook:

1. Della-Giustina, D.E. (2003). The Fire Safety Management Handbook (second edition), American Society of Safety Engineers, Des Plaines, Illinois

<u>References</u>

- 1. Jordan's Fire Code
- 2. Jordan's Building Code