هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

T-104
2022

Course Specification

Course Title:	Industrial Safety and Environment
Course Code:	111 CBS
Program:	All Programs
Department:	College of Applied Industrial Technology (CAIT)
College:	College of Applied Industrial Technology (CAIT)
Institution:	Jazan University
Version:	T-104 - 2022
Last Revision Date:	2023

Table of Contents:

A. General Information about the Course

Course Identification								
1. Credit Hours: 1								
2. Course Type:								
a. University		College		☑ Department		Track		Others
b. Required	☑ Elective							
3. Level/year at which this course is offered:			5th Level		2nd Year			

4. Course General Description

This class will cover the basics of a company safety and health program and the minimum requirements under OSHA. All students will present their findings for specific industry hazards and graduate students will develop an additional industry safety and health written accident prevention program.
The course is introduced through 2-hrs contact weekly.

5. Pre-requirements for this course (if any): -------

6. Co- requirements for this course (if any): -------

7. Course Main Objective(s):

The objectives of this course are teaching the students how to mitigate the hazards through engineering controls, administrative controls and personal protective equipment through case studies with suggestion for appropriate remedies, also reviewing the principles for developing and implementing a successful occupational health and safety program and evaluation of a work site. Moreover, identifying basic fire prevention and protection programs in the workplace, as well as giving knowledge about occupational health, industrial hygiene, and accidental prevention techniques to the students with training the students about risk assessment and management. Case studies are used here to identify the major historical events that influenced accident prevention activities in the pre/post industrial revolution

1. Teaching Mode: (Mark all that apply)

No	Mode of Instruction	Contact Hours	Percentages
1	Traditional classrooms		0.0%
2	E-learning		0.0%
3	Hybride * Traditional classrooms * E-learning	22	100.0%
4	Distance learning		0.0%

2. **Contact Hours** **(based on the academic semester)**

No	Activity	Contact Hours
1	Lectures	11
2	Laboratory/Studio	5
3	Field	6
4	Tutorial	
5	Others (specify)	
	Total	**22**

Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes (CLOs)	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	**Knowledge and understanding**			
1.1	Define the basic terminology of Occupational Safety and Health (Hazard, Risk, Emergency Plan, OSHA, PPE, environmental pollution, etc), and safety signs and signals	K1.1	Structured Lectures Questioning	Quizzes Exams
2.0	**Skills**			
2.1	Identify hazard and potential hazard areas, and determine how to mitigate the hazards through engineering controls, administrative controls and personal protective equipment, as well as emergency planning	S1.1	Structured Lectures Questioning	Quizzes Exams
2.2	Convey safety practices orally and in writing	S3.1	Structured Lectures Questioning	Quizzes Exams
2.3	Estimate the environmental pollution and the factors influencing it.	S4.1	Structured Lectures Questioning	Quizzes Exams
3.0	**Values, autonomy, and responsibility**			
3.1	Identify contemporary issues related to safety	V2.1	Worked Examples Questioning	Report
3.2	Show independent timeliness work with effective contribution	V1.3	Collaborative Learning Questioning	Report

C. Course Content

No	List of Topics	Contact Hours
1	Terminologies about safety (OSHA, Hazard, Risk, …, etc), as well as safety goals and rules	2
2	Introduction about hazards in workplace, safety and training, and safety committees.	2
3	Personal Protective Equipment	2
4	Safety Signs with their effective use and hand signals	2
5	Hazards in workplaces and their probabilities and instant actions.	4
6	Risk Assessment	2
7	Emergency Action Plan	2
8	Environmental Pollution	4
9	Revisions with Case Studies	2
	Total	**22**

D. Students Assessment Activities

No	Assessment Activities	Assessment Timing (In Week No)	Percentage of Total Assessment Score
1	Activity 1 (Hazard at CAIT & Hom	Week 2	5%
2	Activity 2	Week 3	5%
3	Activity 3	Week 4	5%
4	Oral and Discussion	All Weeks	5%
5	Mid Term	Week 8	20%
6	Practical Activity	All Weeks	20%
7	Final Exam	As Scheduled	40%

* Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

E. Learning Resources and Facilities

1 References and Learning Resources

Essential References	1	PowerPoint Lectures printout
	2	Industrial Safety and Environmental Management
Supportive References	1	Mott R.L., Machine Element in Mechanical Design, Prentice all, 2003. ISBN: 976-967-0120-05-8, June 20. Anwar Ahmad, University of Nizwa
Electronic Materials	1	OSHA
	2	Any related websites which may be used for research assignments and project
Other Learning Materials	1	Not Exist

2 Required Facilities and Equipment

Items	Resources
Facilities (Classrooms, Laboratories, Exhibition rooms, Simulation Room, etc.)	Suitable Classroom Whiteboard Suitable number of chairs Suitable Lab
Technology Equipment (Projector, Smart Board, Software)	Smart Board
Other Equipment (Depending on the nature of the specialty)	

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Method
Effectiveness of Teaching	Student	Indirect
	Course Instructor (Faculty)	Direct
Quality of Learning Resources	Program Coordinator	Indirect
	Head of Department	Indirect
	Quality Auditor	Indirect
The extent to which CLOs have been achieved	Course Instructor (Faculty)	Direct
	Quality Auditor	Direct
Other	Course Coordinator	Indirect
	Quality Auditor	Indirect

G. Specification Approval Data

Council/Committee	College of Applied Industrial Technology (CAIT)
Reference Number	
Date	