



A) COURSE

Course Id:	Course
5972	INDUSTRIAL SAFETY AND HEALTH

Class Hours per Week	Lab hours per week	Complementary practices	Credits	Total hour course
3	0	3	6	48

B) GENERAL COURSE INFORMATION:

	EE (IEA)	ME (IM)	MME (IMA)	EME (IME)	MTE (IMT)
Level:					
Course Type (Required/Elective)			Elective		
Prerequisite Course:					
CACEI Classification:			IA		

C) COURSE OBJECTIVE

At the end of the course, the student will be capable of:
Students will learn the legal and preventive procedures to avoid accidents

D) TOPICS (CONTENTS AND METHODOLOGY)

1 . INTRODUCTION.		3 Hours
Specific Objective:	Students will locate the subject within the curriculum of the program and view the importance of the central themes in his professional field that will focus in the immediate future.	
Readings and other resources		
	Books, Articles, Further literature, Internet Links.	
Teaching Methodologies		
	Exhibition themes, concept analysis, problem resolution and discussion, group work and individual.	
Learning Activities		

2.- GENERAL.		9 Hours
Specific Objective:	To acquire basic information about the evolution of social security, within it, the importance of safety and industrial hygiene worldwide and in Mexico, both in the technical and medical and legal.	



2.1. - Background of safety at work and mainly in industry. 2.2. - Background of industrial hygiene 2.3. - Development of social security in Mexico. 2.4. - Interrelation of basic science to safety, hygiene and ecology in the workplace. 2.5. - Legal framework of safety, hygiene and industrial ecology in Mexico.	
Readings and other resources	Books, Articles, Further literature, Internet Links.
Teaching Methodologies	Exhibition themes, concept analysis, problem resolution and discussion, group work and individual.
Learning Activities	

3. - INDUSTRIAL SAFETY	18 Hours
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Specific Objective:	To acquire basic knowledge about industrial safety and meet the technical and administrative tools and the rules in force in our country.
3.1. - Industrial Security Basics 3.2. - Precepts and technical rules governing industrial safety a) International b) National 3.3. - Federal Labour Law 3.4. - Social Insurance Law 3.5. - General Law on Health 3.6. - Law of ecology and environment 3.7. - Federal Labour Regulation 3.8. - Planning of industrial safety 3.9. - Basic industrial safety programs 3.10. - effective management of industrial safety programs 3.11. - Evaluation of results in industrial safety.	
Readings and other resources	Books, Articles, Further literature, Internet Links.
Teaching Methodologies	Exhibition themes, concept analysis, problem resolution and discussion, group work and individual.
Learning Activities	

4. - INDUSTRIAL HYGIENE.	18 Hours
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Specific Objective:	To acquire basic knowledge of industrial hygiene and learn about the tools and technical and administrative provisions in force in our country.
4.1. - Industrial Hygiene Basics 4.2. - Precepts and technical rules governing industrial hygiene a) International b) National 4.3. - Planning of industrial hygiene 4.4. - Basic industrial hygiene programs 4.5. - Administration of effective industrial hygiene 4.6. - Evaluation of results in industrial hygiene	
Readings and other resources	Books, Articles, Further literature, Internet Links.
Teaching Methodologies	Exhibition themes, concept analysis, problem resolution and discussion, group work and individual.
Learning Activities	

E) TEACHING AND LEARNING METHODOLOGIES

Exhibition themes, individual and group. Individual research papers.



F) EVALUATION CRITERIA:

Evaluation:	Schedule	Suggested Form of Evaluation and weighing	Topics
1er. Evaluation Partial	Session 16	Exam 80% , Homework 20%	Unity 1 y 2
2º Evaluation Partial	Session 32	Exam 80% , Homework 20%	Unity 3
3er. Evaluation Partial	Session 48	Exam 80% , Homework 20%	Unity 4
Evaluation Final Ordinary		100% Average partial evaluations	
Other Activity:			
Exam Extraordinary	Week 17 of the semester in progress	100% Exam	100% Program
Exam of title	According to schedule school secretary	100% Exam	100% Program
Exam regularization	According to schedule school secretary	100% Exam	100% Program

G) BIBLIOGRAPHY AND ELECTRONIC RESOURCES

ASOCIACIÓN NACIONAL DE LA INDUSTRIA QUÍMICA, Guía de respuestas iniciales en casos de emergencia, SETIQ, México, D.F. 1992

BLAKE ROLAND P., Seguridad e higiene industrial, Diana 2a reimpresión, México.

CONSEJO INTERAMERICANO DE SEGURIDAD SOCIAL, Manual de prevención en las actividades y operaciones industriales, Mapfre, España.

MAPFRE, PERSONAL TÉCNICO, Higiene industrial, Mapfre, España.

SECRETARIA DEL TRABAJO Y PREVISIÓN SOCIAL, Reglamento general de seguridad e higiene en el trabajo y normas STPS, México D.F. 1987

COMPLEMENTARY BIBLIOGRAPHY:

STPS, IMSS, Guías para las comisiones mixtas de seguridad e higiene en los centros de trabajo, STPS, IMSS, México, D.F., 1987.

JACK W. BULEY, A guide to effective industrial safety gulf publishing company, Book division Houston Texas, 1997.

MULTIMEDIA AND i-LINKS:

Compilación de Jurisprudencia en materia laboral contenida en IUS 2006. Ley Federal del Trabajo Comentada, editada en discos por la SCJN.

www.stps.gob.mx
(Portal de la Secretaría del Trabajo y Previsión Social).

<http://comprasep.gob.mx>