

Course Outline

COURSE: WTRM 118 **DIVISION:** 50 **ALSO LISTED AS:**

TERM EFFECTIVE: Spring 2018 **Inactive Course**

SHORT TITLE: INTRO OCC HEALTH & SAFETY

LONG TITLE: Introduction to Occupational Health and Safety

Units	Number of Weeks		Contact Hours/Week		Total Contact Hours
3	18	Lecture:	3	Lecture:	54
		Lab:	0	Lab:	0
		Other:	0	Other:	0
		Total:	3	Total:	54

COURSE DESCRIPTION:

This course covers the fundamentals of the health and safety associated with water treatment, distribution and waste water treatment operations. Subjects covered include introduction to safety, confined space, lockout- tagout, respiratory protection, heat stress, fall protection and traffic control. Each section will satisfy existing Cal/OSHA and other water industry related training requirements. This course is now listed as WTRM 218.

PREREQUISITES:

COREQUISITES:

CREDIT STATUS: D - Credit - Degree Applicable

GRADING MODES

L - Standard Letter Grade

REPEATABILITY: N - Course may not be repeated

SCHEDULE TYPES:

02 - Lecture and/or discussion

STUDENT LEARNING OUTCOMES:

1. Discuss Safety Management Systems and IIPP
 Measure: Quizzes and exercises

PLO:

ILO: 3,7,6

2. Discuss hazardous materials and Right to Know

Measure: Quizzes and exercises

PLO:

ILO: 3,7,6

3. Discuss confined Space and lockout tag-out (LOTO) safety

Measure: Quizzes and exercises

PLO:

ILO: 3,7,6

4. Discuss personal protective equipment (PPE) and respiratory protection

Measure: Quizzes and exercises

PLO:

ILO: 3,7,6

5. Discuss powered industrial truck safety

Measure: Quizzes and exercises

PLO:

ILO: 3,7,6

6. Discuss vehicles and tool safety

Measure: Quizzes and exercises

PLO:

ILO: 3,7,6

7. Discuss traffic control, trenching safety and flagging

Measure: Quizzes and exercises

PLO:

ILO: 3,7,6

8. Discuss trenching safety

Measure: Quizzes and exercises

PLO:

ILO: 3,7,6

9. Discuss facilities, maintenance and laboratory safety

Measure: Quizzes and exercises

PLO:

ILO: 3,7,6

CONTENT, STUDENT PERFORMANCE OBJECTIVES, OUT-OF-CLASS ASSIGNMENTS

Inactive Course: 03/13/2017

3 Hours

Content: Understanding Safety Management Systems / Illness and Injury Prevention Programs: responsibilities, communication, investigations, reporting and recordkeeping.

Student Performance Objectives (SPO): Explain how Safety Management Systems work and how to create an IIPP

Out-of-Class Assignments: Write an IIPP for a fictitious organization

6 Hours

Content: Hazardous Materials and Right to Know

Student Performance Objectives (SPO): Outline the requirements for certification in Title 22 and how to use MSDS, signs, labels and other forms of hazard communications

Out-of-Class Assignments: Obtain a MSDS from the internet. Determine how the material will be stored, what materials are incompatible, emergency procedures and proper PPE needed for handling this material.

6 Hours

Content: Confined Spaces and Lockout Tag-Out (LOTO)

Student Performance Objectives (SPO): Explain the dangers and how to work safely in a confined space. To understand how to use LOTO to block exposure to hazardous energy.

Out-of-Class Assignments: Find an incident involving Confined Spaces or LOTO on the internet. Write a report about it including its causes and what should have been done to prevent the accident.

6 Hours

Content: Personal Protective Equipment (PPE) and Respiratory Protection

Student Performance Objectives (SPO): Describe how to select, use and maintain PPE.

Out-of-Class Assignments: Select the proper PPE for a specified task.

6 Hours

Content: Powered Industrial Trucks

Student Performance Objectives (SPO): Explain how to use PITs safely. Note: The student needs to perform an aptitude test on a PIT for certification.

Out-of-Class Assignments: Find an accident involving PIT on the internet. Write a report about it including its causes and what should have been done to prevent the accident.

3 Hours

Content: Vehicles and Tools

Student Performance Objectives (SPO): Outline how to safely use key tools and do vehicle inspections.

Out-of-Class Assignments: Perform a pre-shift inspection on a vehicle

6 Hours

Content: Traffic Control and Flagging

Student Performance Objectives (SPO): Explain how to apply the DOT's regulations of traffic control in work areas involving traffic.

Out-of-Class Assignments: Perform a traffic control plan and draw a traffic control zone for this plan

3 Hours

Content: Trenching Safety

Student Performance Objectives (SPO): Explain the hazards of trenches and how to safely working in trenching areas.

Out-of-Class Assignments: Find a trenching accident on the internet. Write a report about it including its causes and what should have been done to prevent the accident.

3 Hours

Content: Facilities, Maintenance and Laboratory Safety

Student Performance Objectives (SPO): Describe how to perform an EH&S audit on facilities. To also learn of hazards & safety practices in labs & maintenance shops.

Out-of-Class Assignments: Perform a safety audit for a workplace or write a report on an accident involving a Maintenance or Laboratory setting.

2 Hours

Final

METHODS OF INSTRUCTION:

Daily instruction by instructor using Power-Points, handouts and videos.

At the end of class, a quiz will be handed out and will be taken home by the student. Various homework assignments will be given out to students. Most of these homework assignments will be internet based and will be handed in by the student.

There will be a midterm and a final given. All questions on the exams will contain questions from the quizzes, material from the textbook and from the handouts.

METHODS OF EVALUATION:

CATEGORY 1 - The types of writing assignments required:

Percent range of total grade: 10 % to 15 %

Written Homework

CATEGORY 2 - The problem-solving assignments required:

Percent range of total grade: 20 % to 25 %

Homework Problems

Quizzes

Exams

CATEGORY 3 - The types of skill demonstrations required:

Percent range of total grade: 20 % to 25 %

Class Performance/s

Performance Exams

CATEGORY 4 - The types of objective examinations used in the course:

Percent range of total grade: 40 % to 50 %

Multiple Choice

True/False

REPRESENTATIVE TEXTBOOKS:

Required:

American Water Works Association, Safety Practices for Water Utilities - Manual of Water Supply Practices M3 (6th Ed.), American Water Works Association, 2002, or other appropriate college level text. This is a standard text used in the water industry.

ISBN: 1-58321-190-x

Reading level of text, Grade: 11 Verified by: Dana Young

Other textbooks or materials to be purchased by the student: EH&S Lecture Handouts & Cal/OSHA Regulations

ARTICULATION and CERTIFICATE INFORMATION

Associate Degree:

CSU GE:

IGETC:

CSU TRANSFER:

Transferable CSU, effective 201270

UC TRANSFER:

Not Transferable

SUPPLEMENTAL DATA:

Basic Skills: N

Classification: Y

Noncredit Category: Y

Cooperative Education:

Program Status: 1 Program Applicable

Special Class Status: N

CAN:

CAN Sequence:

CSU Crosswalk Course Department: WTRM

CSU Crosswalk Course Number: 118

Prior to College Level: Y

Non Credit Enhanced Funding: N

Funding Agency Code: Y

In-Service: N

Occupational Course: C

Maximum Hours: 3

Minimum Hours: 3

Course Control Number: CCC000530895

Sports/Physical Education Course: N

Taxonomy of Program: 095800