

Basic Course Information

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| Semester: | Spring Semester 2025 | Instructor Name: | Hector M. Figueroa, MM |
| Course Title & #: | BC-101 (OSHA Standards) | Email: | Hector.figueroa@imperial.edu |
| CRN #: | 20590 | Webpage (optional): | https://www.imperial.edu/ |
| Classroom: | Bldg.: 200 Room #212 | Office #: | PT Professor Trailer (white) |
| Class Dates: | February 12 – June 04, 2025 | Office Hours: | 5:00pm |
| Class Days: | Wednesday | Office Phone #: | Canvas inbox email |
| Class Times: | 6:00 pm – 9:10 pm | Emergency Contact: | Tisha Nelson Tel. 760-355-6361 |
| Units: | 3 Units | Class Format: | In-Person |

Course Description

This Safety Standards course is designed to afford the student the opportunity to earn the Construction Industry Cal/OSHA 30-Hour card. The course provides student with essential instruction and learning allowing them to develop and master knowledge and skills associated with **Safety and Health Hazard Recognition and Prevention at places of work**. Topics include: OSHA and Cal/OSHA standards, hazard analysis and identification, industrial hygiene, acceptable safety practices, proper selection and use of personal protective equipment (PPE), job hazard analysis and mitigation measures, hazard communication standards, and inspections, citations/notifications and penalties. Cal/OSHA card processing fee of \$10 will apply. (Non- transferrable, AA/AS degree only).

Course Prerequisite(s) and/orCorequisite(s)

None. This class is an introductory course to safety, safety process and standards. No previous knowledge in safety is required to take this class, everyone is welcome.

Anyone wanting to learn about Safety in general is welcome to take this course, regardless of your major.

Student Learning Outcomes

Upon course completion, the successful student will have to acquire new skills, knowledge, and or attitudes as demonstrated by being able to:

1. Understand the appropriate use of personal protective equipment (PPE) depending on job specifics and the job performed (ILO1)

- a. Understand the purpose of lockout and tagout of equipment (ILO1, ILO2).
- b. Analyze and understand the purpose of keeping an SDS at the jobsite (ILO1, ILO2, ILO5)

Course Objectives

Upon satisfactory completion of the course, students will be able to:

1. Demonstrate an understanding of the Occupational Safety and Health (Cal/OSHA) standards as they apply to Construction requirements, and to General Industry (and Electrical Safety Orders).
2. Reference the OSHA standards and determine the requirements for compliance within a prescribed situation
3. Analyze job site hazards and identify acceptable mitigation measures
4. Complete an acceptable incident report and reference OSHA subpart and section
5. Demonstrate an understanding of OSHA Inspections, citations and penalties
6. List Personal Protective Equipment (PPE) and list one limitation for the use of each PPE item
7. List and discuss the application of the Job Hazard Analysis model
8. Explain the difference between OSHA Compliance and OSHA Consulting and their role in the industry

Textbooks & Other Resources or Links

- Cal/OSHA Construction & Electrical Safety Orders June 2024 Edition SKU: 60CC-001-22
- Cal/OSHA General Industry & Electrical Safety Orders June 2024 Edition SKU: 60R-001-23
- Industry-related Websites OSHA, Cal/OSHA, ANSI, ESTM, NIOSH, ACGIH, EPA, Dig Alert (811), others...
 - <https://www.dir.ca.gov/dosh/> ○ <https://www.osha.gov/> ○ <https://www.epa.gov/>

Course Requirements and Instructional Methods

Required Information—discretionary language, the classroom setting is set for;

- Course material on Canvas HUB
- Industry Related websites (OSHA, Cal/OSHA, EPA, NIOSH, ACGIH, Dig-Alert, ASTM, ANSI, etc.).
- Audio/Visual
- Demonstration and hands-on
- Discussion
- Group Activity
- Individual Assistance
- Lecture
- Simulation/Case Study/Workshop

Out of Class Assignments: The Department of Education policy states that one (1) credit hour is the amount of student work that reasonably approximates not less than one hour of class time and two (2) hours of out-of-class time per week over the span of a semester. WASC has adopted a similar requirement.

You will use Canvas in this class. Canvas will be our SharePoint site/central HUB for this class. I will place all class material in Canvas, HW is submitted through Canvas and Quizzes and Exams will be done on Canvas.

Course Grading Based on Course Objectives

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| 1. Homework assignment assigned weekly, due the following week one hour before class - (29% of total grade). | 29% |
| 2. Quiz every other week, in class - (25% of total grade). | 25% |
| 3. Mid-term on Week 8 or 9 of semester, in class - (20% of total grade). | 20% |
| 4. Final Exam on the last day of class - (20% of total grade). | 20% |
| 5. Punctuality, Attendance and In-class Participation are also part of your final grade - (6% of total grade). | +6% |
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| 6. Three (3) unexcused absences may get you dropped from class | 100% |
- Must meet OSHA requirements to earn the Cal OSHA card **(You must earn a C or better in class and you must attend all mandatory and elective topic to earn the 30-hour Cal OSHA Construction Industry card).**
 - You must do good in all five areas listed above to pass this class (1. Homework assignments, 2. Quizzes, 3. Participation (in-class participation, punctuality, and attendance), 4. Mid-Term Exam, 5. Final Exam).

Course Policies

Classroom Etiquette and Discretionary language

- **Electronic Devices:** Cell phones and electronic devices must be turned off and put away during class unless otherwise directed by the instructor. **No Cell phones use in class! No Computer/tablet use in Class! No earpieces (ex. Air Pods use in class).**
- **Food and Drink are prohibited in all classrooms:** Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Please comply as directed.
- **Disruptive Students:** **Students who disrupt or interfere with a class may be sent out of the room and told to meet with the Campus Disciplinary Officer before returning to continue with coursework. Disciplinary procedures will be followed as outlined in the General Catalog. Campus Security - (760) 483-7411.**
- **Children in the classroom:** Due to college rules and state laws, no one who is not enrolled in the class may attend, including children.

Academic Honesty.

- **Plagiarism** is to take and present as one's owned the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to correctly 'cite a source', you must ask for help.
- **Cheating** is defined as fraud, deceit, or dishonesty in an academic assignment or using or attempting to use materials, or assisting others in using materials, or assisting others in using materials, which are prohibited or inappropriate in the context of the academic assignment in question. **The use of A.I. is not allowed in this class, you cannot use A.I. to complete homework assignments.**

Anyone caught cheating or will receive a zero (0) on the exam or assignment, and the instructor may report the incident to the Campus Disciplinary Officer, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action. Please refer to the General School Catalog for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to the following: (a) plagiarism; (b) copying or attempting to copy from others during an examination or on an assignment ;(c)

communicating test information with another person during an examination; (d) allowing others to do an assignment or portion of an assignment, use of a commercial term paper service.

Attendance

- A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of an online class will be dropped by the instructor as of the first official meeting of that class. Should re-admission be desired, the student's status will be the same as that of any other student who desires to add a class. It is the student's responsibility to drop or officially withdraw from the class. See General Catalog for details.
- Regular attendance in all classes is expected of all students. A student whose continuous, unexcused absence exceed the number of hours the class is scheduled to meet per week may be dropped (**3 unexcused absences may get you dropped from this class**).
- Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as 'excused' absences.

Other Course Information

- **CANVAS LMS:** Canvas is Imperial Valley College's main Learning Management System. To log onto Canvas, use the link: Canvas Student Login. The Canvas Student Guides Site provides a variety of support available to students 24 hours per day. **Additionally, a 24/7 Canvas Support Hotline is available for students to use: (877) 893-9853.**
- You may consult your college map for the **Reading and Writing Lab, Study Skills Center and/or Library**
- **Library Services:** As you know there is more to our library than just books. You have access to tutors in the learning center, study rooms for small groups, and online access to a wealth of resources.

IVC Student Resources

Disabled Student Programs and Services (DSPS)

Any student with a documented disability who may need educational accommodations should notify the instructor or the Disabled Student Programs and Services (DSP&S) office as soon as possible. If you feel you need to be evaluated for educational accommodations, the DSP&S office is located in Building 2100, telephone 760-355-6313.

Physical Conditions: Notify the instructor if you have any physical conditions which could possibly affect your safety or health in the performance of the course class/laboratory assignments. Adjustments to your assignments, if necessary, will be made.

Student Counseling and Health Services

Students have counseling and health services available, provided by the pre-paid Student Health Fee. We now also have a fulltime mental health counselor. For information see <http://www.imperial.edu/students/student-health-center/>. The IVC Student Health Center is located in the Health Science building in Room 2109, telephone 760-355-6310.

Student Rights and Responsibilities

Students have the right to experience a positive learning environment and due process. For further information regarding student rights and responsibilities please refer to the IVC General Catalog available online at http://www.imperial.edu/index.php?option=com_docman&task=doc_download&gid=4516&Itemid=762

Information Literacy

Imperial Valley College is dedicated to help students skillfully discover, evaluate, and use information from all sources. Students can access tutorials at <http://www.imperial.edu/courses-and-programs/divisions/arts-and-letters/library-department/info-lit-tutorials/>

Anticipated Class Schedule/Calendar

Course Schedule ****subject to change without prior notice****

| Date or Week | Activity, Assignment, and/or Topic | Assignment |
|---------------------|--|-------------------------|
| Week 1 2/12/2025 | Introductions, Syllabus, Canvas, and Bangladesh Shipbreakers exercise | Buy your Books HW #1 |
| Week 2 2/19/2025 | Time Management and Organizational Skills Hooked on Safety by Billy Robins and Introduction to OSHA | HW #2 |
| Week 3 2/26/2025 | Focus Four Hazards (Part 1): Caught in between, Struck by, Falls and Electrical Hazards. | Quiz #1 HW #3 |
| Week 4 3/05/2025 | Focus Four Hazards (Part 2): Caught in between, Struck by, Falls and Electrical Hazards: LOTO, Fall Protection | HW #4 |

| Date or Week | Activity, Assignment, and/or Topic | Assignment |
|----------------------|---|---------------------------------|
| Week 5 3/12/2025 | Managing Safety and Health Programs & Hazard Analysis, IIPP (9 elements), Partnership Programs | Quiz #2 HW #5 |
| Week 6 3/19/2025 | Personal Protective Equipment and Life Saving Devices and. Hierarchy of Controls, Employer/Employees Responsibilities, Permit required, Rescue Plan, Air Monitoring | HW #6 |
| Week 7 3/26/2025 | Health Hazards in Construction. HCS, GHS, SDS's, Chemical, Physical, Biological, and Ergonomic Hazards | Quiz #3 HW #7 |
| Week 8 4/02/2025 | Health Hazards in Construction. Asbestos, lead, silica, heat illness, bloodborne pathogens | HW #8 |
| Week #9 4/09/2025 | Confine Spaces, and Stairways and Ladders, Excavations and Tools Hand and Power. Competent Person vs. Qualified Person Cranes, Powered Industrial Vehicles, and Motorized Vehicles, Walking, Working Surfaces and Cal/OSHA Access/Egress Evacuation | Mid-Term Exam Week #9 |



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| Week 10 4/16/2025 | Scaffolds in Construction, Material Handling in Construction, and Cranes, Derricks, Hoists, Elevators and Conveyors in Construction | HW #10 |
| Week 10 4/23/2025 | Ergonomics, Material handling, Steel Structures, Concrete and Masonry | Quiz #4 HW #11 |
| Week 11 4/30/2025 | Structural Steel Erections, and Welding, Cutting & Brazing Hexavalent Chromium (CrVI) | HW #12 |
| Week 12 5/07/2025 | Concrete and Masonry and Fire Protection and Prevention. Types of fire/extinguishers, PASS, Fire Triangle/Tetrahedron | Quiz #5 HW #13 |
| Week 13 5/14/2025 | Electrical Hazards in Construction, Hazards of Static Electricity and LOTO (Lockout / Tagout). Lok out and Tag out. | HW #14 |
| Week 14 5/21/2025 | Health Hazards in Construction (expansion). Heat Illness Prevention, Asbestos, Lead, Silica, Noise, Respiratory Hazards/Protection, Blood borne Pathogens, Hanta Virus, | Quiz #6 HW #15 |
| Week 15 5/28/2025 | Foundations of Safety Management, Bangladesh Ship Breaker video, compare current safety knowledge to day one of class. | HW #16 |
| Week 16 6/04/2025 | Final Review of entire semester Bangladesh video exercise Q & A Fina | HW #17 Final Exam |
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Grade Scale

| Point Score (%) | Letter Grade |
|----------------------------------|-------------------------|
| 90-100 | A – Excellent |
| 80-89 | B – Better than average |
| 70-79 (C or better to earn card) | C – Average |
| 60-69 | D – Below Average |
| 59 or lower | F – Fail |

CLASS RULES ON THE FOLLOWING PAGE

Mandatory Class Rules

- 1. Be On Time:**
 - Class starts at **6:00 pm sharp**.
 - Class runs from **6:00 pm to 9:10 pm**. You must stay the entire duration of the class to earn full credit.
 - **Attendance is mandatory** to earn the Cal/OSHA card.
 - **No make-up classes**. Missing mandatory topics means you **will not earn the Cal/OSHA Card**.
- 2. Attendance Policy:**
 - Do not be late or leave early if you want to earn full credit for the day.
 - **Three (3) or more unexcused absences** may result in being dropped from the class.
- 3. Homework Submission:**
 - Submit homework by **5:00 pm** on the due date (one hour before class).
 - **AI use for homework is not allowed** and will be considered **cheating**.
- 4. Be Present & Participate:**
 - **Be on time, alert, and ready to learn**. Engage actively in class.
 - Your comments in class should add value. **No foul language** is allowed.
 - In-class participation is part of your grade: You must participate at least once per class to earn full participation points (2% of your final grade).
- 5. Technology Use:**
 - **No phone use** during class. Step outside if you need to use your cell phone and come back when done.
 - **No earpieces, AirPods, or similar devices**.
 - **No computers or tablets** unless otherwise stated.
- 6. Breaks:**
 - **Do not leave class immediately after roll call** to use the restroom or buy a snack.
 - **No extended absences** from class. Students who leave for extended periods will **not receive credit for the day**. This behavior is disruptive.
- 7. Respect & Behavior:**
 - Be respectful towards the class, your classmates, and the instructor, and you will be respected in return.
 - **No napping** in class. If you need rest, please do so outside and return when fully awake.
- 8. Instructor Communication:**
 - Contact me via **Canvas inbox** for questions about class materials (PowerPoints, homework, quizzes, exams).
 - Follow the **chain of command**: Come talk to me first, and I will help you.
- 9. Office Hours:**
 - I am available for questions starting at **5:30 pm**. You can also reach me via **Canvas email** anytime.
- 10. Cal/OSHA Card:**
 - The cost of the **Cal/OSHA card** is **\$10**, payable to IVC.
 - Only students who earn a **C or better** and meet OSHA's requirements will receive the card.

11. Note on Class Rules:

- Class rules are **subject to change**. Any changes will be communicated.
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Let's Make it Fun!

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