

Environmental Hazards of Highway Work Syllabus

Time: 4 hours

Maximum Class Size: 20

Prerequisites: None

Course Description: In addition to transportation incidents, other fatalities incurred during highway work include exposure to harmful substances and fire or explosion. This course will help workers develop an understanding of the many hazards they face when doing highway work including disease causing insects, toxic substances, biological hazards, and rattlesnakes.

Goals/Objectives/Student Learning Outcomes:

- Identify and avoid the dangers and symptoms associated with exposure to poisonous plants, insects, and snakes.
- Identify common chemicals in the workplace.
- Describe what to do if biological hazards are found in the workplace.
- List at least three ways blood borne pathogens can enter the body.
- Identify control measures to prevent exposure to blood borne pathogens.
- List the PPE that can be used to control exposure to blood borne pathogens.

Standards

- 29 CFR 1926.28 Personal Protective Equipment
- 29 CFR 1926.21 Safety Training and Education
- 29 CFR 1926.52 Occupational Noise Exposure
- 29 CFR 1910.1200 Hazard Communication

Classroom Rules and Procedures

- All classes begin at 11:00 am and end at 3:00 pm
- Upon entering classroom, all participants must sign in and be seated by 11:00 am.
- Class will consist of a combination of lecture, video, demonstration, coached group exercises, individual exercises and assessment.
- Students are required to report to class ready to work and maintain the provided PPE.

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Textbooks/Readings/Materials

- LIUNA: *Environmental Hazards of Highway Work* IG/PG
- Red Cross Sudden Illness Participant Guide
- "USA Spider Chart"-www.termite.com
- "Ticks"-H.Teodoro, Los Angeles West Vector Control District
- "Epidemiology & The Risk of Snakebite"-GORP Health
- "RATTLESNAKE!"- By Willis Lamm, Trailblazer Magazine 1994
- "Idaho Rattlesnakes"-Idaho Geocachers 2002
- "Poison Oak" photos
- "Viral Hepatitis:A through E and Beyond"- National Digestive Diseases Information Clearinghouse
- "E. coli"-By Mayo Clinic staff

Personal Protective Equipment

- 20 pairs of gloves
- 20 pairs of safety glasses
- 20 pairs of ear plugs
- 20 hard hats

Course Requirements

To receive credit for the course, participants must:

- Be present for full four hours
- Participate in all classroom exercises
- Pass a written exam

Course Policies

- Participants must be on-time and ready to work.
- Participants must return from breaks on-time.
- Participants must participate in each exercise and assignment
- Participants who are on "light duty" are not allowed to take this course due to the physically demanding requirements.

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Assessment and Grading

Participants will be assessed on the following:

- All written exams must be passed with a score of 80% or above.

Safety

Failure to maintain and use PPE may result in dismissal from the course.