

Module 1 Introduction to OSHA: Study Guide

Module Learning Objectives

1. Recognize types of workplace hazards.
2. List your rights and responsibilities.
3. Identify your employer's responsibilities.
4. File a health and safety complaint.
5. Outline the steps OSHA takes to address complaints.

Module Summary

Learning Objective 1. Recognize types of workplace hazards.

Congress created OSHA in 1970 with the Occupational Safety and Health Act ("OSH Act") to make workplaces safer. A key component is identifying and addressing workplace hazards as early as possible to help prevent injuries and illnesses.

Common types of hazards include:

- Unstable walls
- Safety hazards: Unsafe conditions that can cause burns, cuts, amputations, broken bones, electric shock, or death.
- Chemical hazards: Harmful chemicals, including gases, liquids, or dust, that can get into the body through the nose, mouth, or skin.
- Biological hazards: Living things, including plants, animals, or germs, that can cause diseases, allergic reactions, bites, or poisoning.
- Physical hazards: Environmental conditions that can cause sunburn, dehydration, frostbite, or hearing loss.
- Ergonomic hazards: Working conditions that can cause back, shoulder, or neck pain, discomfort, strains, and other injuries.
- Work organization hazards: Workplace issues that can cause stress.

The hierarchy of controls outlines the best way to protect workers from hazards by:

- Eliminating them from the site.
- Substituting them for something else.
- Reducing workers' exposure with engineering safeguards (also called engineering controls).
- Instituting safety policies (also called administrative controls).
- Providing personal protective equipment (PPE) to protect against the effects of the hazard.

Osha Safety Study Guide

Mike L Turner

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web the magnetic field that results from powering the coils is present whether the beam is there or not we are interested in finding the field in this aperture and also in knowing how to build a magnet to get the desired field typically accelerators and beamlines have magnets that serve individual functions

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web pulling together superconducting electromagnets particles zipping round the lhcb at close to the speed of light must follow precise paths powerful magnets keep the beams stable accurate and safe the large hadron collider lhcb is currently operating at the energy of 6.5 tev per beam

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web the electron beam is bent by a toroidal magnetic coil at the beginning and end of the overlap region collisions between the continuously renewed electron beam and the ions serve to reduce the random motions of the ions leading to a high energy resolution

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web aug 1 2018 share tools in this article we present a method to design a coil producing an arbitrarily shaped magnetic field by restricting the path of the coil's wires to a regular grid the solution is then found by a simple least squares minimum

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web two pairs of magnetic coils are usually placed near the entrance far end of the waveguide to bend the direction of electron beam radially and transversely these are called directional bending magnetic coils

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web the coil is bent at an acute angle at the center between the left and right wings the bending forces the coil to conform to the shape of the human head moreover it results in an increased depth of the induced electric fields in the brain

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web an electromagnetic coil is an electrical conductor such as a wire in the shape of a coil spiral or helix electromagnetic coils are used in electrical engineering in applications where electric currents interact with magnetic fields in devices such as electric motors generators inductors electromagnets transformers and

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web number of conductor turns in a coil is n magnetic field strength h 1 oe 103 4 a m 79 58 a m mmf magnetic flux 1 wb 1 vs assignment design a 90 degree bending magnet for beam analysis with the duoplasmatron

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web where h is the strength of the magnetic field in ampere turns metre at m n is the number of turns of the coil i is the current flowing through the coil in amps l is the length of the coil in metres m then to summarise the strength or intensity of a coils magnetic field depends on the following factors the number of turns of wire within the coil

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web a superconducting magnet is an electromagnet made from coils of superconducting wire they must be cooled to cryogenic temperatures during operation in its superconducting state the wire has no electrical resistance and therefore can conduct much larger electric currents than ordinary wire creating intense magnetic fields