



Introduction to Safety

Course Structure

Module One – 1 credit

Topic Unit 1: OSHA Standards and Safety inspection (timeline)

1. Purpose of OSHA
2. Elements of OSHA Preparedness
3. Employer and Employee duties and responsibilities under OSHA
4. Elements of OSHA general duty clause
5. Inspection of Facilities
 - i. Preparation for inspections
 - ii. Inspection process
 - iii. Citations and penalties

Lab/Project/Exercise _____

Topic Unit 2: Hazard Awareness and Communication (timeline)

1. Hazard Assessment
2. Slips and Falls
3. Ladder Use
4. Stair Safety
5. Aisles and Passageways
6. Fall arrest systems
7. Confined Space
8. Chemical handling
 - i. Chemical recognition and storage
 - ii. Hazards and exposure
 - iii. HAZCOM
 - iv. SDS
 - v. Exposure guidelines
 - vi. Fire flashpoints and explosions

Lab/Project/Exercise _____

Topic Unit 3: Personal Protective Equipment/Programs (timeline)

1. Selection of necessary PPE for hazards
2. Function, use and maintenance of PPE

Lab/Project/Exercise _____

Summative Exam _____





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Module 2 – 1 credit

Topic Unit 4: Fire and Safety Emergency Response (timeline)

1. Evacuation plans
2. Fire extinguishing agents
3. Training requirements and standards for exits, extinguishers, storage and handling combustible materials
4. Emergency response plans

Lab/Project/Exercise _____

Topic Unit 5: Electrical and Tool Safety (timeline)

1. Hazards prevention
2. Safety precautions when using electrical equipment
3. Types of training to prevent electrical hazards
4. Arc Flash

Lab/Project/Exercise _____

Topic Unit 6: Tool Safety (timeline)

1. Tools
 - i. Inspection and cleaning
 - ii. Proper and improper use

Lab/Project/Exercise _____

Summative Exam _____





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Module 3 – 1 credit

Topic Unit 7: Lockout/Tagout (LOTO safety) (timeline)

Lab/Project/Exercise _____

Topic Unit 8: Ergonomics (timeline)

Lab/Project/Exercise _____

Topic Unit 9: Bloodborne Pathogens (timeline)

1. Exposure and modes of transmission
2. Requirements of employer employee
3. Protection from exposure through safe work practices
4. Exposure control plans
5. Regulated medical waste
6. Proper labelling of waste and record keeping

Lab/Project/Exercise _____

Summative Exam _____





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