**Worksite Safety 09: OSHA Materials Storage (RV-10458) – 1 hour course**

**Course Description**

The handling and storage of materials used in the construction trade involves diverse operations such as hoisting heavy steel bars with a crane, driving a truck loaded with concrete blocks, manually carrying bags, and stacking drums, lumber or loose bricks. When any of these things are done the wrong way, serious injuries and extensive costs can result.

**Course Objectives**

Upon completion of the lesson, participants will be able to:

* List the three main injuries that occur during material handling, storage, use and disposal
* Describe at least two ways to prevent injury when performing manual lifting
* Explain at least three ways to eliminate hazards that may lead to injury when using forklifts, cranes or slings to handle materials
* Describe at least three actions that can reduce or eliminate hazards when storing, using or disposing of materials

**Course Outline**

**Introduction – 5 minutes**

The handling and storage of materials used in the construction trade involves diverse operations such as hoisting heavy steel bars with a crane, driving a truck loaded with concrete blocks, manually carrying bags, and stacking drums, lumber or loose bricks.

**Hazards – 10 minutes**

Keeping general safety principles in effect can help reduce workplace accidents.

* Manual Handling
* Prevention
* Safe Lifting Training
* Personal Protective Equipment
* Controls and Work Practices

**Materials Handling Equipment – 15 minutes**

To reduce potential accidents associated with workplace equipment, employees need to be trained in the proper use and limitations of the equipment they operate.

* Using Materials Handling Equipment
* Forklifts
* Case Studies
* Recommendations
* General Powered Industrial Truck Safety Precautions
* Powered Industrial Truck Training
* Cranes
* Conveyors

**Sling Safety – 15 minutes**

Because cranes, derricks, and hoists rely upon slings to hold their suspended loads, slings are the most commonly used piece of materials-handling apparatus.

* The Importance of the Operator
* Sling Types
* Alloy Steel Chains
* Wire Rope Slings
* Field Lubrication
* Storage
* Discarding Slings
* Fiber Rope
* Synthetic Web Sling
* Maintenance

**Storing Materials – 5 minutes**

Among the basics concerning stored materials is that they must not create a hazard. Naturally, this means that incompatible materials (such as firecrackers and strike-anywhere matches) should not be stored together.

**Waste Materials Disposal – 5 minutes**

The OSHA standard dictates rules for the disposal of waste materials in a relatively short and straightforward manner, addressed in 1926.252.

**Ergonomic Safety & Health Principles – 5 minutes**

Ergonomics focuses on the work environment, such as its design and function, as well as items—such as the design and function of work stations, controls, displays, safety devices, tools, and lighting to fit the employees' physical requirements and to ensure their health and well-being.

* What About Fire Safety?
* What About Aisles and Passageways?
* Training and Education
* Should the prevention of some injuries receive special emphasis?

**Conclusion**

* Summary
* Fact Sheets