



Objectives

Identify safety precautions associated with building materials.

- a. List general safety guidelines for working with building materials.
- b. Cite safety precautions for working with wood building materials.
- c. Cite safety precautions for working with concrete building materials.
- d. Cite safety precautions for working with metal building materials.

Describe the proper method of handling and storing building materials.

- a. List basic material-handling guidelines.
- b. Describe how to handle and store wood building materials.
- c. Describe how to handle and store concrete building materials.
- d. Describe how to handle and store metal building materials.

Kickoff Activity

 Using the given scenario, complete a job hazard analysis (JHA) form in its entirety. Remember to focus on the relationship between the worker, the task, the tools to be used, and the work environment.

Section 2.1.0

- Housekeeping
 - Remove all scrap material and lumber with nails protruding.
 - Clean up spills.
 - Remove all combustible scrap materials regularly.
 - Have available containers for the collection and separation of refuse. Containers for flammable or harmful refuse must be covered.
 - Dispose of wastes often.
 - Store all tools and equipment when you're finished using them.

Section 2.2.0

- Wood safety
 - Wear gloves to prevent embedded splinters, cuts, and scrapes.
 - When stacking lumber, ensure that the boards will not fall or slide.
 - Place the lumber flat on the ground. Do not stand them on end.
 - Do not pile lumber more than 6' high if moving it manually.



Section 2.3.0

- Dry cement dust can cause:
 - Blood poisoning.
 - Chemical burns to the membranes of the eyes, nose, mouth, throat, or lungs.
 - A fatal lung disease known as silicosis.
- Wet cement or concrete can cause:
 - Chemical burns to the eyes and skin.
 - An allergic skin reaction known as cement dermatitis.



Section 2.4.0

- Steel product safety
 - Wear thick gloves to prevent penetration by sharp edges of the framing members.
 - Use caution when handling wet steel framing members, which may be slippery.
 - Avoid dropping members or placing heavy loads of steel framing members on electrical cords as they may cut through the cord and create an electrical hazard.



Section 3.1.1

- Pretask planning
 - Check to make sure the load is not too big, heavy, or hard to grasp.
 - Make sure the load does not have protruding nails, wires, or sharp edges.
 - Make sure the material can be handled by one person.
 - Inspect your path of travel.
 - Always read warning labels and instructions.



Section 3.1.2

- Proper dress
 - Do not wear loose clothing.
 - Button shirt sleeves; tuck in shirt tails.
 - Remove all jewelry.
 - Tie back and secure long hair underneath your hard hat.
 - A wristwatch, if worn, should be designed to break away if caught in machinery.
 - Wear gloves whenever cuts, splinters, blisters, or other hand injuries are possible.

Section 3.1.3

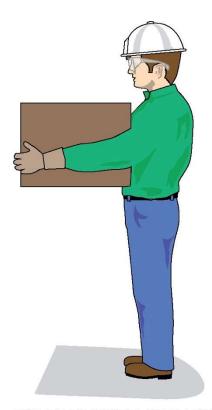
Know the technique for proper lifting.



BEND YOUR KNEES AND GRASP THE OBJECT FIRMLY.



LIFT THE OBJECT BY STRAIGHTENING YOUR LEGS.



MOVE FORWARD ONCE YOU ARE IN FULL VERTICAL POSITION.



Section 3.2.0

- There are several factors to consider when unloading and stacking building materials at the job site. These may include the following:
 - The order in which the material will be used
 - The weight of the material
 - The weather conditions



Section 3.2.0

- Handling and storing wood materials
 - Material should be stacked on a level surface.
 - Separate the lumber, keeping the treated material from the untreated material.
 - Keep the materials banded until it is time to use them.
 - Protect the lumber from the elements with waterproof material.



Section 3.3.0

- Handling and storing concrete products
 - Portland cement can be stored indefinitely if stored properly.
 - Store bags off the ground and in a dry location.
 - Stack bags closely together.
 - If stored outdoors, stack the bags on pallets and cover them with a waterproof covering.



Section 3.4.0

- Handling and storing steel products
 - Handle carefully as the steel framing members may have sharp edges.
 - Store members in a dry location and/or covered to prevent exposure to moisture.
 Despite a galvanized coating, corrosion may occur if the coating is deeply scratched.



Wrap Up

Review the information on housekeeping and materials handling and storage in OSHA Safety and Health Standards for the Construction Industry (29 CFR, Part 1926 (1926.25 and 1926 Subpart H).

Next Lesson: Calculating Lumber, Panel, and Concrete Quantities Review Sections 4.0.0–4.3.4

