



Training Solutions, Delivered!

**SAFETY BOB'S
COMPREHENSIVE
CONSTRUCTION SAFETY
ORIENTATION
*(Concise)***

**Leader's Guide, Fact Sheet
& Quiz**

Item Number: 4368
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This easy-to-use Leader's Guide is provided to assist in conducting a successful presentation.

PREPARING FOR THE MEETING

Here are a few suggestions for using this program:

- a) Review the contents of the Fact Sheet that immediately follows this page to familiarize yourself with the program topic and the training points discussed in the program. The Fact Sheet also includes a list of Program Objectives that details the information that participants should learn from watching the program.
- b) If required by your organization, make an attendance record to be signed by each participant to document the training to be conducted.
- c) Prepare the area and equipment to be used for the training. Make sure the watching environment is comfortable and free from outside distractions. Also, ensure that participants can see and hear the TV screen or computer monitor without obstructions.
- d) Make copies of the Review Quiz included at the end of this Leader's Guide to be completed by participants at the conclusion of the presentation. Be aware that the page containing the answers to the quiz comes *before* the quiz itself, which is on the final page.

CONDUCTING THE PRESENTATION

- a) Begin the meeting by welcoming the participants. Introduce yourself and give each person an opportunity to become acquainted if there are new people joining the training session.
- b) Introduce the program by its title and explain to participants what they are expected to learn as stated in the Program Objectives of the Fact Sheet.
- c) Play the program without interruption. Upon completion, lead discussions about your organization's specific policies regarding the subject matter. Make sure to note any unique hazards associated with the program's topic that participants may encounter while performing their job duties at your facility.
- d) Hand out copies of the review quiz to all of the participants and make sure each one completes it before concluding the training session.

4347 SAFETY BOB'S COMPREHENSIVE CONSTRUCTION SAFETY ORIENTATION (*Concise*) FACT SHEET

LENGTH: 13 MINUTES

PRODUCTION YEAR: 2013

PROGRAM SYNOPSIS:

Construction work is very dangerous, as nearly 1,000 workers are killed and thousands of others are injured on construction jobsites each year. While there have been many safety improvements over the years to control the hazards that contribute to these incidents, new and inexperienced workers still get hurt on the jobsite way too often. This program stresses the point that these workers must be responsible for their own personal safety. Construction Safety Specialist Bob Synnett discusses the hazards of construction work and what actions construction workers can take to avoid mishaps on the job.

Topics include personal protective equipment, excavation, ladder safety, scaffolding, fall protection, electrical safety, general safety tips and the importance of a positive attitude.

PROGRAM OBJECTIVES:

After watching the program, the participant will be able to explain the following:

- Why safety glasses and hardhats must always be worn on construction sites;
- How to avoid injuries when working in and around excavation sites;
- How to safely work on ladders and scaffolding;
- What types of fall protection are used on construction sites and how they protect workers;
- What precautions to take when working with or around electricity;
- Which general safety tips will help workers stay safe on a construction site.

PROGRAM OUTLINE

EMPLOYEE RESPONSIBILITY FOR PERSONAL SAFETY

- Point Number One: Your job is dangerous. Nearly 1,000 workers were killed on construction jobsites last year. That means on average, least three construction workers were killed on jobsites every day!
- Point Number Two: You are the person most responsible for your personal safety. Not your company, not some government safety inspector, not even your supervisor. They can all help you, but always remember, you are the person most responsible for your own personal safety.
- You can be careless and unsafe too. Over eight out of every 10 construction accidents are caused by employee error.
- You'll see a number of those unsafe workers in this program, each marked with a red X, but those unsafe workers don't work at your jobsite or for your company. This kind of behavior is not allowed at your jobsite or for your company.
- Those scenes are only shown in this program as an example to you of the kind of behavior that gets construction workers hurt or even killed. So always think safety before you act. Don't take that shortcut or you may be one of the three construction workers that won't go home today.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

- On any construction site, your PPE should start with your hardhat. It protects you from head injuries; you need to wear it at all times.
- The same is true for safety glasses. Wear your safety glasses all the time while on-site. They protect your eyes and your most precious sense of sight.
- Putting on this equipment before work each day should be habit and as natural as putting on your pants each morning.
- So wear your PPE. Your protection and even your future livelihood may depend on you wearing your personal protective equipment.

EXCAVATIONS & TRENCHES

- Working inside a trench or an excavation is one of the most dangerous places on any construction site.

- It's a competent person's job to determine soil type on your project and then what to do in each trench or excavation to ensure all workers are protected.
- Protection methods include sloping back the soil so there's no chance of cave-in. Stable soil, referred to as Type A, must be sloped-back on a ratio of three-quarters to one.
- Type B soil is not quite as stable and must be sloped-back on a one to one ratio.
- Finally, the least stable and most dangerous soil is referred to as Type C soil. This soil must be protected or sloped-back at least on a ratio of one and a half to one, so there's no danger of a cave-in.
- When there's not enough room to slope back a trench or excavation, a trench-box or some other type of protection, like shoring or bracing must be used.
- You'll also need an adequate ladder or sloped-ramp access in and out of trenches or excavations and all spoil piles must be placed at least two feet away from the edge of trenches or excavations.
- Whether you slope it, shore it, bench it, brace it or use a trench-box, do something. Make sure each of your trenches and excavations are safe.

LADDER SAFETY

- First, inspect your ladder before using it. If the ladder is damaged in any way, don't use that ladder.
- Next, make sure your ladder is set up level and on stable ground before you climb.
- When setting up a stepladder, open the ladder fully and lock the arms in place.
- Don't use a stepladder leaned up against a wall; it could easily "kick-out."
- When using a straight or extension ladder, place it with the ladder extending three feet above the upper landing. Then climb to the top and secure or tie-off that ladder.
- Always climb ladders face-first, using three points of contact on the ladder at all times. Your two arms and two feet are your four points of contact. So when climbing a ladder, three of those four should always be in contact with the ladder.
- Always use the right ladder for the job. If you need an eight-foot stepladder, don't use a six-foot stepladder.
- Do it right, do it safely and live to climb that ladder another day.

SCAFFOLDING

- First, scaffold construction or tear-down must be supervised by a qualified person.
- All scaffolding needs to be level and stable, with poles placed on base-plates, mud-sills or adequate firm foundation.
- All scaffold sections must be pinned, with cross-braces in-place, before working on the scaffold.
- All scaffold work areas or platforms must be fully-decked.
- You can't climb the cross braces; you've got to use some sort of ladder. Many scaffold systems have ladders built-in, but if they don't, use an extension ladder and tie it off to access your scaffold work area.
- For your safety, your scaffolding needs fall protection. Most use guardrails and mid-rails.
- It is also needed at those areas where you load or unload materials.

FALL PROTECTION

- Fall protection should be used anywhere on the jobsite where you can suffer a fall. That includes building or roof edges, steel erection, aerial lifts, even holes and skylights, just to name just a few.
- There's several types of fall protection, but three are most widely used.
- The first are guardrails and mid-rails, usually placed directly in front of a fall exposure. Remember, those rails have to be strong enough to keep you from falling.
- Another option is a personal fall protection system, which includes a harness, a lanyard and a suitable tie-off point. Make sure you know how to properly wear your personal fall protection.
- Wearing a fall protection harness doesn't do you any good if you don't tie-off.
- Warning lines are used mostly on roofs to keep workers' a safe distance from the edge of the roof so these lines should be placed at least six-feet away from the roof edge.
- So do it right, do it safely, and plan ahead and protect yourself with fall protection every time you need to on the jobsite.

ELECTRICAL SAFETY

- Electrical power: it's often called the "silent killer." On the jobsite, electrical power is almost always required, but all too often misused.
- Making matters worse, most construction workers don't have any appreciation for the kind of injury that an electrical shock can deliver.
- Remember, all site electrical power needs to be grounded and always protected with ground fault circuit interrupters, called GFCIs for short.
- All electrical panels on-site need to be safe too. They should have protective covers. Be careful; openings around the edges might expose you to energized-electrical parts, especially dangerous if you're carrying tools or materials.
- If you see open spaces in a panel, stay clear! That open space is real dangerous!
- Construction extension cords must be rated "heavy-duty" and all cords must be in good condition and taped or spliced cords are not in good condition; these should be replaced.
- Extension cords always need a ground-prong. A cord lacking a ground is one of the most common safety violations.
- So remember, if the extension cord you're about to use doesn't have a ground-prong, don't use it.
- Electrical rooms should be kept locked with only electrical workers or supervisory employees allowed in and the doors should also have warning labels posted.
- It's critical you keep equipment or materials at least 20 feet away from all power lines.
- So do it right, do it safely and don't ever be shocked by the "silent killer."

GENERAL SAFETY ITEMS

- Safety and housekeeping go hand-in-hand on the jobsite. Your clean job will not only be a safer job but far more productive.
- No safety orientation would be complete without discussing proper lifting techniques, as all too many construction workers still injure their backs every year.
- Back injuries happen because many workers instinctively and incorrectly use their backs to lift and not their legs. After making this mistake, and lifting this way many, many times, their back finally gives way.
- So the most important thing about lifting safety isn't how to lift something the right way, because most of you know that, but to always remember to lift safely each and every time you pick something up.
- If your job is to operate heavy equipment, you need to be trained and authorized to operate that equipment.
- Always inspect your equipment before using it each day. Workers on any aerial lift should use fall protection and tie-off in any lift at all times
- Lastly, but most important, if your equipment has a seatbelt, always use that seatbelt. Make it a habit for you and your family. It's a sure-fire way to add years to your life.

CLOSING

- Our orientation isn't complete without talking about the one item that can keep you safer more than any other, and that's your attitude. Because despite the dangers and despite the hazards on construction sites, construction workers like you can work safely.
- Forget about the excuses like, "I'm in a hurry" or "I've always done it that way before" or "Give me five minutes to get this done and then I'll work safe". Excuses will only get you hurt.
- Remember, working safely depends on your attitude and a positive attitude can save you from injury or worse. With that positive attitude and knowledge of the hazards around you, you can make the jobsite a safer place. Do it right, do it safely and go home from the jobsite healthy and whole each day.

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ANSWERS TO THE REVIEW QUIZ

1. c

2. c

3. b

4. c

5. b

6. a

7. b

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REVIEW QUIZ

The following questions are provided to determine how well you understand the information presented in this program.

Name _____ Date _____

1. How many construction accidents are caused by employee error?
 - a. 2 out of 10
 - b. 5 out of 10
 - c. 8 out of 10

2. Which is the most dangerous type of soil?
 - a. Type A
 - b. Type B
 - c. Type C

3. Whose job is it to determine the soil type on an excavation project?
 - a. An OSHA inspector
 - b. A competent person
 - c. Any construction worker with excavation experience

4. How far must warning lines be placed from a roof edge?
 - a. At least 2 feet
 - b. At least 4 feet
 - c. At least 6 feet

5. Extension cords are only required to have a ground prong when you are working near water or in wet conditions.
 - a. True
 - b. False

6. The most important thing about lifting safety is to always remember to lift safely each and every time you pick something up.
 - a. True
 - b. False

7. What is the one item that can keep you safer than any other?
 - a. Your knowledge about your job
 - b. Your attitude
 - c. Supervision while working