

## Signal Person Refresher Syllabus

**Time:** 8 hours

**Maximum Class Size:** 12

**Prerequisites:** None

**Course Description:** Many different types of construction jobs involve working with cranes to hoist loads. This work is dangerous and can cause serious accidents or even fatalities. Crane operators, riggers and signal persons all need to follow safe work practices, including inspecting cranes regularly and using equipment properly. This 8-hour LIUNA Training and Education course refreshes participants on completing this dangerous work in a safe and efficient manner. In addition, students are updated on any regulatory changes that may have gone into effect since their last training session.

### Goals/Objectives/Student Learning Outcomes:

- Describe some of the common errors that cause most crane and rigging accidents
- Describe and demonstrate six safe work practices for working with and around cranes and explain why each is important
- Using scenarios involving cranes working near power lines, give the minimum clearance between the crane and the lines based on OSHA standards
- Describe and demonstrate five safe work practices related to rigging and hoisting
- Identify seven types of rigging hardware and describe the functions of each piece of the hardware
- Describe eight types of sling configurations and identify the situation that each is used in

### Standards Addressed

- OSHA 1926.1427 Subpart CC: Cranes and Derricks in Construction.
- ANSI A10.42: Rigging Qualifications and Responsibilities.

### Classroom Rules and Procedures

- All classes begin at 6:30 am and end at 3:00 pm
- Upon entering classroom, all participants must sign in and be seated by 6:30 am
- Class will consist of a combination of lecture, video, demonstration, coached group exercises, individual exercises and assessment.
- Students are required to report to class ready to work and maintain the provided PPE

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### Textbooks/Readings/Materials

- LIUNA Training & Education *Hoisting & Rigging* IG/PG
- *Signal Person Refresher* Power Point
- Pens, pencils, highlighters
- Computer, projector, markers, whiteboard and/or flipchart

### Tools/Equipment/Other Materials

- Rigging Hardware
- Various size thimbles
- Various sizes and types of shackles
- Shouldered and non-shouldered eye bolts
- Hoist rings of different sizes, shapes and materials
- Turnbuckles with different end fittings
- Links or rings of different sizes and shapes
- Hooks with safety latches

### Personal Protective Equipment

- 12 pairs of gloves
- 12 pairs of safety glasses
- 20 pairs of earplugs
- 12 hard hats

### Course Requirements

To receive credit for the course, participants must:

- Be present for full eight hours
- Participate in all classroom exercises
- Pass a written exam
- Pass a hands-on exam

### Course Policies

- Participants must be on-time and ready to work.
- Participants must return from breaks on-time.
- Participants must participate in each exercise and assignment
- Participants who are on “light duty” are not allowed to take this course due to the physically demanding requirements.

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### **Assessment and Grading**

Participants will be assessed on the following:

- All written exams must be passed with a score of 80% or above.
- All hands-on exercises are graded on performance and participation. They are pass/fail and must be passed with a score of 80% or above.

### **Safety**

Failure to maintain and use PPE may result in dismissal from the course.