

## Aerial Boom Lift Syllabus

**Time:** 8 hours

**Maximum Class Size:** 12

**Prerequisites:** None

**Course Description:** Participants will learn how don and doff a personal fall arrest system, calculate load capacities, understand vehicle limitations and stability, and perform inspections on an aerial boom lift, scissor lift and an aerial platform. Participants will understand the hazards associated with aerial lifts and the safety precautions necessary to avoid injury. Participants will be given time to practice safely operating the aerial lifts covered in the class.

### Goals/Objectives/Student Learning Outcomes:

- Determine load capacities for the scissor lift, aerial boom lift, and aerial boom platform.
- Identify and discuss possible hazards such as overhead power lines, vehicle stability, tip-over and fall hazards.
- Demonstrate watering down training surface to avoid silica exposure.
- Describe the safety procedures for the aerial boom lift, scissor lift and aerial boom platform.
- Identify the controls for the aerial boom lift, scissor lift and aerial boom platform.
- Demonstrate the proper fit and adjustment of personal fall arrest systems.
- Check fluid, inspect, and perform walk-around check for all aerial lifts.
- Safely extend the platform of the aerial boom lift to the top of a flag pole and/or light pole.
- Safely operate and elevate the scissor lift.
- Safely operate and connect an aerial work platform to an extended reach forklift, perform a mock lift and disconnect the platform.
- Complete a 10-question exit exams with a score of 80% or above.
- Pass a hands-on evaluation with a score of 80% or above.

### Standards Addressed

- |                    |                               |
|--------------------|-------------------------------|
| • 29CFR 1926.28    | Personal Protective Equipment |
| • 29CFR 1926.451   | Fall Protection               |
| • 29CFR 1926.453.  | Aerial Lifts                  |
| • 29 CFR 1926.1153 | Silica                        |

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### 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

### Textbooks/Readings/Materials

- LTS *Aerial Boom Lifts* Student Handout Packet
- DVD: *AGC Aerial Safety*
- Pens, pencils, highlighters
- Computer, projector, markers, whiteboard and/or flipchart
- *Aerial Boom Lift Hands-On Evaluation*
- Aerial Boom Lift 10-question Exit Exam A or B
- Aerial Boom Lift Answer Sheet

### Tools/Equipment/Other Materials

- Aerial Boom Lift
- 20' Scissor Lift
- Boom Platform
- Personal Fall Arrest System
- Hose, nozzle and water source

### Personal Protective Equipment

- 12 pairs of gloves
- 12 pairs of Safety Glasses
- 20 pairs of Ear plugs
- 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

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### **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.

### **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.