

Overview eBook:

# Lift Director & Critical Lift Planning Program





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## Introduction

The Lift Director Program and the Critical Lift Planning Program are among the highest level courses offered at ITI. They are paired together due to their similarity in nature, yet are defined differently due to the great importance of their individual content. The Lift Director Course describes the skill set that should be in place, and areas of responsibility. Other elements of the course include how the Lift Director is selected, what his tasks are, and to whom is he accountable. The Critical Lift Program highlights the data, the assignments and the procedures that the Lift Director must manage.

## Lift Director Course Purpose and Scope

The purpose of this course is to provide participants with the knowledge and skill necessary to properly develop and execute a critical lift plan using load handling equipment as described in ASME B30.



## Program Objectives

1. The participant will be able to identify the ASME B30.5 responsibilities section in the current edition.
2. The participant will be able to identify the tasks and assignments which pertain to the five parties named in the responsibilities section.
3. The participant will determine the skill set needed for each person; site supervisor, lift director, crane user, crane owner and crane operator.
4. The participant will determine the other individuals that may be involved in daily crane and rigging operating and their roles, i.e. rigger, signaler, tag line person, analysis, project engineer, safety officer and maintenance mechanic.
5. The participant will successfully complete a crane and rigging field assignment serving as at least one of the five primary roles as described in ASME B30.5 responsibilities.



## Learning Objectives

- |          |  |
|----------|--|
| Module 1 | Crane and Rigging Team                             |
| Module 2 | Crane and Rigging Tools and Support Personnel      |
| Module 3 | Personnel Responsibilities and Operating Structure |
| Module 4 | Crane and Rigging Team Knowledge and Skill Sets    |
| Module 5 | Crane and Rigging Team Resources                   |
| Module 6 | Rigging Selection                                  |
| Module 7 | Load Handling Projects                             |
| Module 8 | Knowledge Check                                    |





### Critical Lift Planning Course Purpose and Scope

The purpose of the course is to provide participants with the knowledge and skill necessary to properly develop and execute a critical lift plan using load handling equipment as described in ASME B30.

### Program Objectives

1. The participant will be able to determine different levels of lift planning.
2. The participant will be able to identify the elements necessary to address each of the three lift planning categories.
3. The participant will be able to determine the steps necessary to complete a mobile crane lift with a suspended personnel platform.
4. The participant will be able to recognize the differences in activities involving the development of a Critical Lift Plan for a Mobile Crane and an Overhead Crane.
5. The participant will complete a Critical Lift Plan and execute the plan using field equipment.
6. The participant will critique other executed Critical Lift Plan load-handling activities at the conclusion of the program.

### Learning Objectives

- |          |                               |
|----------|-------------------------------|
| Module 1 | Lift Plan Categories          |
| Module 2 | Lift Plan Specifics           |
| Module 3 | Lifting Personnel             |
| Module 4 | Critical Lift Plans           |
| Module 5 | Critical Lift Plan Assignment |

## Who Should Attend

Those who wish to participate in the Lift Director and Critical Lift Programs should have some exposure to mobile crane activity and load chart usage. Knowledge of overhead crane and tower crane operations are also useful. Previous training or experience with a variety of rigging tasks will help the participant ramp up quicker in the applications described during the course. Having served as a crane operator or rigger in the field is not a requirement for either of these programs.

## Which Industries Require Personnel with Lift Director Skills

There are loads to be handled in all industries that are at times very expensive, hard to replace, or if lost could cause an operational shutdown and serious loss of revenue. Industries which typically call for daily Lift Director involvement and regular use of Critical Lift Planning may include but not be limited to nuclear power, aerospace, defense, shipbuilding, ship repair, powerhouses (hydro/coal-fired), wind energy, surface and underground mining and construction. Also in rebuild and outage work in established facilities and sites such as oil and gas refineries, manufacturing and large steel fabrication companies who handle different size, shape and load weights on a regular basis.

## When and Where is the Course Offered

The Lift Director and Critical Lift Planning Courses can be scheduled at a client's facility and are also offered at ITI's world-class training center in Woodland, Washington. The courses at our training center are open enrollment and are scheduled throughout the year. Check for dates in our Class Schedule.

## Course Duration

The typical Lift Director course is conducted in an 8-hour day and the Critical Lift Planning program requires 16-hours for completion. When offered at ITI's Training Center, the Lift Director Class is first, and is immediately followed by Critical Lift Planning.





## Testimonials

*"Recently we were required to make a 3-crane pick on an ice breaker barge being built at our facility. This was a specialty lift that required several months of pre-planning including developing a critical lift plan and organizing pre-lift meetings with everyone involved. The lift was a great success! Our experienced crew has gained tremendous knowledge and skill by attending advanced training and hands-on activities provided by Industrial Training International. Challenging workshops, hands-on instruction and superior instructors prepared us to accomplish projects like this!"*

*Troy Higdon, Crane & Rigging Instructor, Jeffboat a division of ACL*

*"Having many years of experience in the crane training industry, I have dealt with many of the major training companies. I can honestly say that Industrial Training International, Inc in Woodland, WA is without a doubt one of the most impressive facilities that I have ever seen. I attended a Journeyman Rigger Program that offered not only classroom time but also a hands-on approach providing us with the knowledge and skill necessary to properly move loads using slings and other rigging hardware. The program was presented by an instructor who was very knowledgeable and has years of experience in the industry. The information and experience that I received was invaluable."*

*Chris Smith, Technical Trainer, Morrow Equipment Company*

*"The course was great. There were a lot of good exercises and mixture of different picks we conducted at the training center."*

*Anonymous*

*"The instructor was as outstanding as the content."*

*Anonymous*

