

# Developing a Lifting Plan for Crane Lifting Operations

## INTRODUCTION

Lifting plan is a set of plans which is created for use in any crane lifting operations and it consists of all the important information that must be considered in a lifting operation thus ensuring that the lifting operation is carried out safely. It aims to facilitate consensus amongst all relevant stakeholders including the lifting crew for a safe outcome. Under the WSH legal requirements, all lifting operations shall be accompanied by a lifting plan.

This BCA Academy's practical course will enable construction site personnel to prepare a proper lifting plan for crane lifting operations and implement the lifting plan in a crane lifting activity.

## OBJECTIVE

At the end of the training, participants would be able to prepare a lifting plan with good understanding of legal requirements, load charts, crane safety and lifting requirements, and be able to apply the lifting plan at a simulated crane location.

## CONTENT

- REGULATIONS AND CODE OF PRACTICE REQUIREMENTS FOR LIFTING OPERATIONS;**  
WSH regulations and Code of Practices requirements relevant to lifting operations will be discussed.
- INTERPRETATION OF LOAD CHARTS FOR CRANES**  
Load charts of commonly used cranes will be presented and interpretation of the load charts for the safety of lifting will be taught.
- KEY INSPECTION ITEMS FOR CRANES**  
Daily inspection checks required before commencing a crane lifting activity will be performed in the BCA Academy crane yard.
- ELEMENTS OF A GOOD LIFTING PLAN**  
Critical elements of a good lifting plan and guidelines of creating lifting plans for lifting operations in construction sites will be explained.
- SAFETY OF CRANE AND LIFTING ACTIVITIES WITH ACCIDENT CASE STUDIES**  
With the use of recent real life case studies, safety aspects of cranes' operation and lifting activities will be emphasized.
- LEARNING ACTIVITY: PREPARE A LIFTING PLAN**  
For a given lifting operation, the participants will prepare a lifting plan and discuss its implementation.
- LEARNING ACTIVITY: IMPLEMENT THE LIFTING PLAN AT CRANE YARD**  
Participants will apply the lifting plan in the BCA Academy's crane yard using a crawler crane for a simulated lifting operation.

## ASSUMED KNOWLEDGE AND SKILLS

Participants who apply for this course are assumed to have:

- basic reading and writing skills in English
- prior work experience at construction sites

## ASSESSMENT

Participants need to submit a lifting plan for a given lifting operation.

## CERTIFICATION

Upon attaining 75% class attendance and obtaining a pass in the assessment, participants will be issued a E-Certificate of Successful Completion.



## DETAILS

Date: 18 & 19 Aug 2022  
Time: 9.00 am to 5.30pm  
Venue: BCA Academy  
Fee (Incl GST): S\$500.00\* (per participant)

\*Skills Development Fund (SDF) funding may be available for this course (pending approval).

## CPD POINTS

PEB : -  
WSH-CPD : -

## TARGET AUDIENCE

This course will benefit all stakeholders of the construction industry who are involved in lifting operations. Specific target audience are:

- WSH personnel (WSH Officer, Co-ordinators & Supervisors)
- Lifting supervisors & other lifting crew team members
- Site Supervisors, Engineers, Project/ Construction Managers who wish to learn about Lifting Plans and Crane Safety.



To register, please log into our Online StoreFront (OSF) at <https://eservices.bcaa.edu.sg/registration/#/login> or scan QR code and search for **course code 44083**