

# HYDRAULIC EXCAVATOR OPERATION

**A 64 - hour course leads to a Certificate of Successful Completion (CSC) recognised for hydraulic excavator operation**

## INTRODUCTION

The hydraulic excavator course provides training and practical hands-on operation in a range of excavation work processes. Those intending to operate the excavator or new excavator operators should attend this course.

## COURSE OBJECTIVE

This course aims to equip both new and inexperienced workers with the knowledge and skills on the safe operation and basic maintenance of the hydraulic excavator.

## COURSE CONTENTS

Two third of the course will focus on practical excavator operation such as routine inspections, digging, trenching, backfilling, levelling, machine traveling etc. The other one-third comprises of classroom lectures. The course will cover the following topics:-

- General knowledge on earthworks and surveying
- Principal components, power and transmission systems of an excavator
- Daily inspection and weekly maintenance of the excavator
- Pre-start and shut-down procedures
- Trenching, ditching and slope cutting techniques
- How to maintain stability in operation
- Good practices for backfilling, travelling and loading excavated materials onto vehicle
- Safety requirements
- Interpret drawings, calculate earth quantities, levels, slopes and width of excavations.

## ENTRY REQUIREMENTS

- At least 18 years of age
- Singapore Citizens, Singapore Permanent Residents or holders of valid work permit

## LANGUAGE OF INSTRUCTION

- English or Mandarin

## CERTIFICATION

Participants have to attend at least 75% of the training session to be eligible to take the written and practical assessment. Those who successfully pass the course assessment will be awarded the E-Certificate of Successful Completion in Hydraulic Excavator Operation. CSC holders with at least 2 months of post-CSC site experience can register for the Skills Evaluation Certificate (K) test in Hydraulic Excavator Operation.

## ADMINISTRATIVE DETAILS

Intake : Regularly subject to minimum class size enrolled. (Confirmation of training place is based on a first come, first served basis)

Duration: 64 hours (9 days or 18 evenings)  
(Training: 64 hours;  
Test/Assessment: 8 hours)

Time : 8.30am to 5.30pm (day class)  
6.00pm to 10.00pm (evening class)

Venue : BCA Academy, 200 Braddell Road

Fee with GST: \$2,100.00 (without subsidy)



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 **44018**

For more information, please call 6248-9999 | Or email: [bca\\_academy@bca.gov.sg](mailto:bca_academy@bca.gov.sg) | For other seminars/courses details, please visit our website@ [www.bcaa.edu.sg](http://www.bcaa.edu.sg)