

# LINE BALANCING TECHNIQUES FOR OPERATIONS MANAGEMENT



## Introduction

Line balancing is used to minimise idle time and remove potential bottlenecks within a process. Effective line balancing forms the core of every successful organisation as the strive to increase productivity without incurring unnecessary costs gathers steam. Factors contributing to high costs such as excessive overtime and manpower, high level of inventory and idle time are all part of the results of poor line balancing.

The need to deal effectively with the problems of scheduling means more staff need to have a comprehensive understanding of the principles and functions of how operation works and this 2-day program primarily aims to deliver the foundation to a more solid management.

## Learning Objectives

At the end of the course, learners will be able to:

- Have a clear understanding of Line Balancing and its impact
- Acquire a comprehensive understanding of the major methods of line balancing
- Recognise the sequencing and scheduling problems in any operation systems
- Solve problems at operation level by using the appropriate operations techniques

## Who Should Attend?

This workshop is suitable for professionals working in the area of operations management and lean production who would like to learn more about lean concept and line balancing, and all who would like to know more about these important aspects of operations management.

## Duration

2 days | 9am – 5pm | 14 hours

## Award of Certificate

Certificate of Completion will be issued to participants who have attended at least 75% of the course.



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## Course Contents

### 1. Scheduling Techniques

- Operations planning and control
- Effects of poor operations control
- Scheduling and sequencing Techniques

### 2. Application of Just-In-Time (JIT) Systems

- Introduction to JIT
- Lean concept – the seven wastes
- Strengths & weaknesses in Push & Pull systems
- Visible control

### 3. Performance Management

- Introduction to work measurement
- Time study, rating and allowances
- Methods time measurement

### 4. Flow Analysis & Line Balancing Techniques

- Introduction and use of line balancing
- The RPW Technique of Line Balancing
- The Kilbridge & Webster Method
- Problems encountered in line balancing

## Course Fees

Member: S\$570.24

Non-Member: S\$622.08

*Registration Fee of S\$17.28 apply*

*All fees stated are inclusive of 8% GST*



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<https://www.sqi.org.sg/courses/>  
or QR Code for soft copy  
and updated training schedule

## Membership Application

Register membership online at [www.sqi.org.sg/membership-join/](http://www.sqi.org.sg/membership-join/) or contact us to get the membership application form.

Membership Categories:

- ~ Organisation membership
- ~ Individual membership

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