

Factory Dynamics

MODULE 125

Learning Activities	Time in Class	Outside Time
9	9 hrs	2 hrs

OVERVIEW

Factory dynamics is an essential element for continuous improvement of productivity within complex manufacturing operations. Increasingly, learners play key roles in decision making that influences performance of the entire fab. This module provides an understanding of the variables, metrics, and analytical techniques used to make control decisions that affect equipment, personnel activities, and work-in-process (WIP) inventory. Realistic scenarios and an interactive simulation develops skills for: production monitoring; calculation and analysis of variables such as start rate, cycle time, and yield; and setting equipment and factory parameters to achieve maximum efficiency and product quality.

MODULE CONTENTS



Narrative Overview

- Learning Activity 01: Factory Performance Metrics
- Learning Activity 02: Relationships of Factory Performance Metrics
- Learning Activity 03: Equipment Performance Metrics
- Learning Activity 04: Application of Performance Metrics
- Learning Activity 05: Operations Variability
- Learning Activity 06: Variability in Simple and Complex Systems
- Learning Activity 07: Theory of Constraints
- Learning Activity 08: Maximizing Manufacturing Capacity
- Learning Activity 09: Variability in Simple and Complex Systems
- Slide Show 01: Factory Performance Metrics
- Slide Show 02: Relationships Among Factory Performance Metrics
- Slide Show 03: Equipment Performance Metrics
- Slide Show 05: Operations Variability
- Slide Show 07: Theory Of Constraints
- Slide Show 08: Manufacturing Capacity Game
- Performance Assessment 01: Factory Dynamics
- Animation 01: Factory Dynamics Simulation



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