

Lean Tools – SMED (1 Day)



Background

Single Minute Exchange of Die (SMED) is one of the many lean production methods for reducing waste in a manufacturing process. It provides a rapid and efficient way of converting a manufacturing process from running the current product to running the next product. This rapid changeover is key to reducing production lot sizes and thereby improving flow.



The concept arose in the late 1950s and early 1960s, when Shigeo Shingo, was consulting to a variety of companies including Toyota, and was contemplating their inability to eliminate bottlenecks at car body-moulding presses. The bottlenecks were caused by long tool changeover times which drove up production lot sizes. If change-over takes a long time then the lost production due to change-overs drives up the cost of the actual production itself.

Toyota's additional problem was that land costs in Japan are very high and therefore it was very expensive to store economic lots of its vehicles. The result was that its costs were higher than other producers because it had to produce vehicles in uneconomic lots.

Over a period of several years, Toyota reworked factory fixtures and vehicle components to maximize their common parts, minimize and standardize assembly tools and steps, and utilize common tooling. This common parts or tooling reduced change-over time. Wherever the tooling could not be common, steps were taken to make the tooling quick to change.

The workshop presents the concept of SMED and how it can be used to reduce changeover times enabling shorter production runs.

Objectives

- To compare traditional set up activities and roles with SMED and how these can be radically re-organised to reduce changeover time.
- To demonstrate significant time savings using SMED by means of a practical demonstration.
- To ensure the participants can take an existing changeover process, break this down into SMED classifications and radically reduce the overall changeover time.

Who should attend

Engineers, Technicians, Supervisors and teams involved in machine changeover.

Course Programme

- Changeover and Changeover Time



- Traditional Setup Steps
- Classification of setup activities
- 5 SMED Process Steps
- Preliminary stage – data collection
- Internal & External activities
- Streamlining all activities
- Documenting procedures
- Typical SMED results
- Ideas for Improvement

Course Manual

Course notes will be provided to participants along with a soft copy on memory stick, which proves to be an excellent source of reference after the course.

Why Choose ETAC?

ETAC is an Irish Company specialising in the provision of training, expertise and software solutions in all matters related to Lean and Six Sigma Business Improvement Programmes. All ETAC associates have extensive knowledge and many years of practical experience in Lean Implementation, Programme Management, Change Management & Six Sigma in many different industries in Ireland, the UK, Europe and the USA.

ETAC has been responsible for the training of over 200 Six Sigma and Lean practitioners including project support for projects that have delivered over €6,000,000 in hard financial benefits for our clients.

Customers of ETAC include Abtran, Air Atlanta, Allergan, Coca Cola, DAA, Diageo, Élan, Element Six, Forest Tosara, GN Resound, Irish Distillers, Iarnród Éireann, Lexmark & Pepsi.

Training Methodology

This classroom based course is highly interactive and uses practical exercises and simulated case studies to reinforce understanding and learning.

Course Organisation

Course Times are typically 9.00am-5.00pm.
Group sizes up to 12 per group.

ETAC

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