

LEAN RAPID EQUIPMENT CHANGEOVER (SMED)

This course helps your workforce understand how SMED (Single Minute Exchange of Dies) can improve productivity, cut lead times, increase product quality and reduce production costs.

SMED is a system for dramatically reducing the time it takes to complete equipment changeovers. The name Single-Minute Exchange of Dies comes from the goal of reducing changeover times to the “single” digits (i.e. less than 10 minutes). SMED was developed by Shigeo Shingo, a Japanese industrial engineer who was extraordinarily successful in helping companies dramatically reduce their changeover times. His pioneering work led to documented reductions in changeover times averaging 94% (e.g. from 90 minutes to less than 5 minutes) across a wide range of companies.

The potential workplace improvements may include reduced inventories, reduced overproduction, better machine utilization, and improved information flow.

Outline of Lessons

Section 1

Simulation of a typical machine which requires a change-over to produce a different part. The participants will become part of the team performing the change-over and capture important metrics related to the change-over; quality, overall changeover time, and the elements performed to complete the change-over.

Section 2

Learn the six steps for applying SMED which provides a step-by-step roadmap for a simple and practical SMED implementation. For most companies, the first priority should be ensuring that there is a clear understanding of where productive time is being lost, and that decisions on improvement initiatives are made based on hard data. This means putting a system in place to collect and analyze manufacturing performance data.

Section 2

Apply countermeasures to the simulation, run production and compare them to the previous performance metrics. As the sixth step, standardize the new method for performing the change-over.

Deliverables to Client

At the conclusion of this workshop, the company will have received the following:

- Foundation-level training in the fundamentals of performing a change-over and capturing information about the change-over, which can be used when applying the six steps of SMED (Single Minute Exchange of Dies) methodology.
- Participation in a simulated machine change-over and the experience of the SMED process for reducing the time to perform a change-over.
- How to apply the SMED techniques to the simulated machine and perform the machine changeover after the application of the SMED improvements.
- The team will be trained and have the ability to participate in a SMED Kaizen Event with an anticipated 50% reduction in changeover time.

For more information e-mail us at info@nepirc.com