

Creating Flow Through the Supply Chain



“When you decide to produce to Takt, the supply chain must also produce to Takt.”

Overview

Many companies have implemented one piece flow cells, kanban systems and complete lean value streams in their facilities to achieve Operational Excellence, only to discover their value streams do not flow due to the supply chain. This in-depth course is designed for people who know about value stream flow and would like to extend it to the supply chain.

In this three-day workshop, we break down flow into its basic elements, then teach how to apply these techniques to the extended value stream to create Operational Excellence throughout the supply chain. Students learn how to create a value stream map for the supply chain, including creating a current state map using a *unique lead time ladder* that measures the amount of flow in the supply chain. Next, we cover the six questions to establish supply chain flow, then the method to build a future state supply chain using lean connections that enable flow. Through case studies, group activities and hands-on supply chain simulations, students learn how to select, implement and sustain lean connections that create Operational Excellence.

This class answers such questions as: Who is the best supplier? How will the supplier know what to send next? How do I know the supplier will never fail? Supply chains are critical to value stream flow, and critical to creating and sustaining Operational Excellence. This class will teach how to create lean flow in the supply chain to ensure your value streams always flow product to your customers.

What Participants Say

“Thanks for having real tools for supply chain!”

“Outstanding course to add to our improvement process.”

“Excellent presentation! Great concepts, great applications.”

Learning Objectives

The concepts covered in this workshop include:

- Value stream mapping the supply chain
- Supply chain connections that enable flow
- Establishing supplier capability
- Heijunka (level loading) scheduling the supplier
- Implementing connections the enable flow with the supplier

Class Duration:

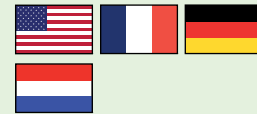
3 days

Recommended Class Size:

20-25

Languages:

English, French, German, Dutch



Prerequisites:

The prerequisites for this workshop are *Value Stream Mapping* and *Creating Mixed Model Value Streams*.

Class Location:

Can be done off-site

Who Should Attend:

A good cross-functional group will provide the most benefit to the company. This includes:

- Value Stream Managers
- Purchasing / Sourcing Manager
- Plant Managers
- Supply Chain Managers
- Internal Plant Suppliers
- External Suppliers
- Office Administrators
- Business Process Improvement Personnel

Creating Flow Through the Supply Chain continued

Program Agenda

Day One

- Brief review of lean concepts
- Introduction to supply chain connections
- Current state simulation with building blocks
- Mapping exercise of the current state simulation (instructor lead)
- Mapping exercise of a case study (in groups)

Day Two

- What makes a supply chain connection lean?
- Types of lean connections
- Connection attributes
- Calculating demand variation
- Which part / which connection
- Determining supplier reliability
- Sizing connections
- Creating flow through supply chain connections

Day Three

- Mapping exercise of the future state simulation (instructor lead)
- Mapping exercise of the future state case study (in groups)
- Implementation
- Selecting the right initial suppliers
- Performing value stream mapping with suppliers
- Debugging to expected supplier performance
- Sustaining the connections
- What do we do when things go wrong?
- How do we know suppliers will never fail?
- Future state simulation with building blocks

Materials Provided by Duggan:

Student Guide (containing all instructor's slides), Supply Chain Mapping Pads

Materials Provided by Client:

Additional room to run simulation, LCD projector, flipcharts, large whiteboard, photocopy machine, dry erase markers, flipchart markers, pencils, one calculator per team and refreshments (coffee, lunches, etc.)

Recommended Support Classes Include:

- Supermarket Sizing

