

The Lean Enterprise and the Supply Chain—Course Four

INTEGRATED SUPPLY CHAIN MANAGEMENT PROGRAM

- ▶ **Location:** Knoxville, Tennessee
- ▶ **Duration:** 2½ days
- ▶ **2010 Dates:** February 17-19
November 17-19
- ▶ **Tuition:** \$3,150 (includes meals and lodging);
\$1,575 if repeating the course
- ▶ Program fees are subject to change. Check our web site (<http://TheCenter.utk.edu>) for the latest information.
- ▶ Prerequisites: none.
- ▶ Class size is limited.

Participant Profile

Supply chain management issues are permeating every business in the modern world. As such, this course in the *Integrated Supply Chain Management Program* is aimed at executives and managers who have experience in the traditional business functions (finance, production, marketing, sales, accounting, engineering, logistics), but want to add to their knowledge of how these functions work together within the company and across companies in the supply chain. Experienced managers and executives (even within logistics)—with or without a graduate business degree—should consider adding this expertise in supply chain management to their personal education.

Course Overview

The coordination of manufacturing operations across organizational boundaries is an essential part of an integrated supply chain. The responsiveness and predictability of lean manufacturing processes are also essential. The lean enterprise

course focuses on these two major themes: rate-based planning and lean manufacturing methods.

Rate-based planning is aimed at coordinating procurement, production, and distribution across the boundaries of organizations. With rate-based planning, the supply chain is coordinated as an integrated entity, or a lean enterprise. The objectives of rate-based planning are:

- ▶ Translating orders into a shared production, procurement, and distribution plan.
- ▶ Developing an integrated plan for flexing in response to variation in demand.
- ▶ Developing rational strategies for responding to demand variation in make-to-stock, configure-to-order, and engineer-to-order production environments.

Options

- ▶ This course may be taken as an independent course.
- ▶ A certificate plaque is awarded to those that take this course and the five other supply chain courses.
- ▶ Those that take this course, all five of the other supply chain courses, and pass all six “exams” earn Supply Chain Management Certification.
- ▶ Taking this course and up to two of the other supply chain courses will count towards the UT Executive Development Certificate.

Certification

Participants may take this course as part of the full *Integrated Supply Chain Management Certification Program*. Other courses needed for

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certification are: *Supply Chain Management Strategy, Demand Management in the Supply Chain, Logistics & Operations in the Supply Chain, Supply Chain Resource Management* and *Integrative Supply Chain Experience*. There will be a knowledge assessment (test or assignment after completion of the course and participants return to work) for those pursuing certification.

Key Objectives

- ▶ To understand the impact of the capability of the manufacturing processes on the supply chain.
- ▶ To learn rate-based planning techniques for coordination of operations across companies.
- ▶ To evaluate suppliers' abilities to function in an integrated supply chain.
- ▶ To understand the tools of lean manufacturing.
- ▶ To understand the principles governing flow in manufacturing processes.
- ▶ To learn the vocabulary of Material Requirement Planning (MRP) systems and of the manufacturing modules of Enterprise Resource Planning (ERP) systems.

Distinguishing Features

- ▶ The course makes extensive use of experiential and computer simulations.
- ▶ A story line in which the participants are evaluating a supplier will be used throughout the course.
- ▶ Participants will be given an opportunity to work with data to evaluate the planning and scheduling processes of the supplier and to assess the manufacturing capabilities of the supplier.
- ▶ The course faculty are involved in The University of Tennessee's Lean Enterprise Forum—a consortium of companies and individuals that share learnings, have access to special materials, and support targeted study groups.
- ▶ The course has been designed to ensure the active involvement of all participants. A balance of theory and application is provided.

The course, like all Center for Executive Education open enrollment programs, is available as a customized, in-house program for organizations.

Faculty

- ▶ **Dr. Melissa Bowers:** Associate Professor of Management Science.
- ▶ **Dr. Kenneth C. Gilbert:** Professor, and Head, Department of Statistics, Operations, and Management Science.
- ▶ **Keith Leitner, M.S.:** Faculty Member, Center for Executive Education.
- ▶ **William Peterson, M.B.A.:** Faculty Member, Center for Executive Education.
- ▶ **Dr. Mandyam M. (Srin) Srinivasan:** Ball Corporation Distinguished Professor of Business.

Facilities

Classes are held in the executive classrooms at UT's Center for Executive Education. These facilities are designed to promote group interaction in an environment conducive to applied discussion, feedback, and the development of relational networks that frequently continue well beyond the on-campus experience.

Accommodations are single-occupancy rooms at the nearby Knoxville Hilton Hotel. Transportation from the hotel to the Center and to dining is provided.

Contact

For more information on the *The Lean Enterprise and the Supply Chain* course, please contact:

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Website

For current information about the Center for Executive Education and its offerings, visit our web site at <http://TheCenter.utk.edu>

Related Courses

- ▶ Integrated Supply Chain Management Program
- ▶ Supply Chain Management Strategy

- ▶ Demand Management in the Supply Chain
- ▶ Logistics & Operations in the Supply Chain
- ▶ Supply Chain Resource Management
- ▶ Integrative Supply Chain Experience
- ▶ Logistics Executive Development Program
- ▶ Performance-Based Logistics: The Basics and Beyond
- ▶ Vested Outsourcing

COURSE SCHEDULE

	WEDNESDAY	THURSDAY	FRIDAY
8:10-9:40		Lean Case Study	Lessons Learned
10:00-11:30			Visual Workplace
12:30-2:00	Building Lean Supply Chains	Lean Flow Simulation I	Lean Applied to Business Processes
2:15-3:45	How to Manage Demand Volatility	Lean Flow Simulation II	
4:00-5:30	The Dice Game	Lean Flow Recap	