Certificate Overview

Every organization has internal supply chains and links to external suppliers and customers. Interlinking organizations span the spectrum from raw materials to finished products and services in the hands of the consumer. The supply chain extends even to final disposition of the commodities consumed from concept to grave. The structured dependency of such chains, the uncertainty of forecasts, and systemic delays are amplified as individual links in the supply chain try to optimize their performance. Even minor changes in the market can cause wild swings in economic performance.

The solution to stabilizing the supply chain must be based upon cooperative, systemic measurements, correct communications between elements, rapid responses to actual demand, and careful selection of inventory buffers and locations. The contributions of design for manufacturability, six sigma quality improvement, operation theories, information systems, enterprise planning, and theory of constraints replenishment all contribute to understanding the solution. It is possible for supply chains of independent business units to reduce their inventory investment, shorten response time, minimize stockouts, increase variety, and cut operations costs all at the same time. A well functioning supply chain can dramatically reduce waste and increase productivity and profits.

Career Benefits and Advancement

This certificate provides supervisors and managers with the knowledge and skills needed to be more effective in the workplace, or prepares those who wish to pursue those roles and advance their careers. When completed, you will be able to:

- Understand strategy and tactics of supply chain management
- Explain the causes of dysfunctional actions
- Contribute to stabilizing individuals and linkages in the supply chain
- Establish the correct communication signals to improve response time with less inventory
- Correctly position protective inventory and know how to adjust the level as demand and variability require
- Know the right measurements to use inside and between supply chain linkages
- Describe ways to reduce chaotic variability and control the entire supply chain from start to finish

Courses (no prerequisites required)

- EM 530 Applications of Constraints Management
- EM 555 Enterprise Resource Management
  or EM 590 Design for Product and Service Realization
- EM 560 Integrated Supply Chain Management
- EM 567 Systems Supportability and Logistics Management
Certificate Requirements

Academic Requirements
To be eligible to enroll in the ETM program and receive a graduate certificate, students must have a bachelor’s degree with at least a 3.0 undergraduate GPA. Students must be admitted to the WSU Graduate School and have the background necessary to take graduate-level coursework in the technical area of specialization.

Course Requirements
An ETM graduate certificate requires four courses (12 credit hours) in specialized areas. A certificate is awarded upon completion of these courses. Course credits earned for a certificate may also apply to a master’s degree in the ETM Program or other graduate degree programs. A student may earn more than one certificate and may work on the certificate and master’s program concurrently. Note: Applying for admission to the ETM certificate program does not automatically result in admission to the ETM master’s degree program.

Convenient and Flexible Program
All courses are offered online and use an innovative blend of traditional classroom instruction and the latest in video streaming and web conferencing technologies that allow courses to be delivered live to students anywhere in the world. Innovative program software allows faculty and students to interact with each other online. The convenience and flexibility of the program is ideal for the working professional. Mobile capabilities are also available. Classes are archived and available to review at any time.

About the ETM Program—since 1982
Washington State University’s online Engineering and Technology Management (ETM) program offers a master’s degree in engineering and technology management, a specialization in construction management, and graduate certificates in eight specialized areas. Courses are designed to provide working engineers with the skills to manage projects, people, and technology. The program is tailored for professionals who want to advance their careers while still working fulltime. For more information, visit etm.wsu.edu or call 509-335-0125.

How to Apply
What you’ll need
- Bachelor’s degree
- Transcripts
- Resumé
- Personal statement

WSU Admissions
Students must be admitted to WSU’s Graduate School to receive a graduate certificate.

Need Help?
509-335-0125
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etm.wsu.edu