



The Manufacturing Operations and Supply Chain Excellence Certificate Programs



Caltech



Creating Next-Generation Leaders

> **The California Institute of Technology Center for Technology and Management Education specializes in providing practical, company-specific, executive education and development programs for the high potential, next-generation leaders of your technology-based company.**

We work with you to customize your program content to address the specific goals and challenges that your next-generation leaders face in a rapidly evolving and dynamic business environment.

Program participants develop a common language that bonds the team.

Participants have opportunities to bond with senior executives who also participate in program events and briefings.

We have over 27 years of experience developing and delivering high impact, customized executive education programs for technology based, business-driven organizations.

Benefits

- Companies generally enroll 20 – 25 high potential participants who have been selected as the future leaders of the company.
- We work with you to develop a fast-track preparation program focusing on company relevant information and skills development.
- Your program will provide critical skills and knowledge in a learning environment designed to create a collaborative team. Individual and team exercises throughout the program are based on real company challenges that the participants currently face or will face as future leaders of the organization.
- Critical skills and knowledge are developed in manufacturing/operations and supply chain as well as the key functions with which manufacturing and operations and supply chain must interface; including finance, engineering, safety, and human resources.
- Many program participants have actually been promoted during their Caltech Manufacturing Operations and Supply Chain Excellence Certificate Program.

Modalities

Our custom courses are action-oriented – and include lectures, case studies, group exercises and individual exercises designed to yield real deliverables and solutions that can be implemented on the job.

Participants develop essential interpersonal understanding and skills in leadership, team-building and influencing. Role playing and developing effective approaches to participants' real life challenges are included.



Content

Program content is customized based upon your company's goals and challenges. The chart shows the entire spectrum of core content available to your organization. All courses are customized to your needs.

OPS-10 Introduction to Manufacturing Operations & Supply Chain Management

Enterprise Economic Value Creation, Financial Expectations, Operations Performance Metrics, Key Responsibilities, Critical Interfaces & Manufacturing Operations Management Roles (8 Hours)

CORE COURSES

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| OPS-21 Production Organization, Processes & Technologies (8 Hours) | OPS-27 Product & Process Quality Management (16 Hours) |
| OPS-22 Materials Management (16 Hours) | OPS-28 Product Data & Engineering Change Management (16 Hours) |
| OPS-23 Global Sourcing & Supplier Management (16 Hours) | OPS-29 Global Sourcing & Supplier Management (16 Hours) |
| OPS-24 Distribution & Logistics Management (16 Hours) | OPS-30 Distribution & Logistics Management (16 Hours) |
| OPS-25 Inventory Management (8 Hours) | OPS-31 Inventory Management (8 Hours) |
| OPS-26 Cost Accounting & Control (16 Hours) | |

SUPPORT COURSES

- OPS-41** Production Engineering (16 Hours)
- OPS-42** Transportation Management (16 Hours)
- OPS-43** Sales & Operations Planning (S&OP) (16 Hours)
- OPS-44** Critical Distribution Regulatory Issues (8 Hours)
- OPS-45** Information Systems in Operations (16 Hours)
- OPS-46** Finance for Operations Professionals (16 Hours)

LEADERSHIP COURSES

- OPS-81** Workplace Design & Leadership Development (16 Hours)
- OPS-82** Behavioral Leadership Tutorial (16 Hours)
- OPS-83** Building & Sustaining High Performance Teams (16 Hours)
- OPS-84** Implementing Aligned Performance Metrics & Reward Systems (16 Hours)
- OPS-85** Influencing Without Alienating (24 Hours)

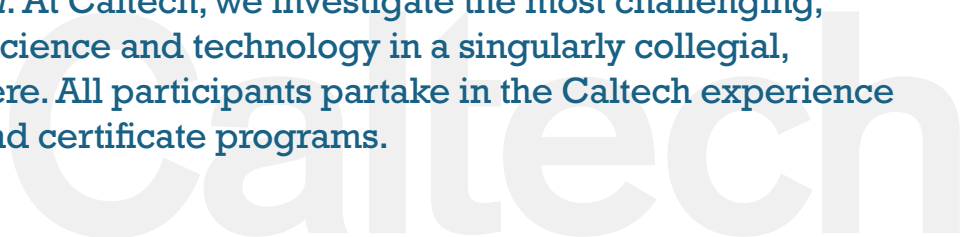
ADVANCED COURSES

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| OPS-61 Production Planning & Scheduling Simulations (8 Hours) | OPS-67 Implementing Activity Based Cost Accounting (16 Hours) |
| OPS-62 Reliability Based Maintenance (8 Hours) | OPS-68 Integrating Operations in the Manufacturing Enterprise (8 Hours) |
| OPS-63 Critical Issues in Global Operations Management (8 Hours) | OPS-69 Plant Manager Tutorial (8 Hours) |
| OPS-64 LEAN Methods in Manufacturing Enterprise Management (24 Hours) | OPS-70 Project Management in Manufacturing (24 Hours) |
| OPS-65 Distribution Network Design (8 Hours) | |

OPS-200 Final Course – Functional Integration, Relevant Problem Solving, Team Presentations & Graduation (16 Hours)

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Caltech has been named the **top university in the world** by the *Times Higher Education*. At Caltech, we investigate the most challenging, fundamental problems in science and technology in a singularly collegial, interdisciplinary atmosphere. All participants partake in the Caltech experience through our coursework and certificate programs.



Program Developers/Instructors

Our instructors are established experts with extensive experience working in technology based industry. Alan G. Dunn, our manufacturing/operations/finance expert, and Ray Thorn, our interpersonal skills and communication expert, are the lead instructors of Caltech's Manufacturing Operations Excellence and Supply Chain Programs. They have each worked with Caltech for over 27 years.



Alan G. Dunn specializes in strategic planning, supply chain management, manufacturing management, operations management, cost management and business finance. He is President of GDI Consulting & Training Company, Founder of the Manufacturing Executive Institute and a Partner in Dunkirk Governance Specialists, LLC. He is also Chairman

Elect of APICS. Previously, Mr. Dunn was a Vice President at Gemini Management Consulting and a Partner at Coopers & Lybrand. In both positions, he led large technical manufacturing teams in innovative productivity enhancement projects. He has participated in over 240 manufacturing and distribution projects inside over 150 companies. He has worked in more than 20 countries and across most industrial sectors.

Companies that Mr. Dunn has worked with include AlliedSignal, American Cyanamid, Amgen, Arkema, AT&T, Baker Hughes, Ballard Power Systems, Baxter, Boeing, General Instrument, General Motors, Health Net, HOERBIGER, Intel, Johnson & Johnson, Lockheed Martin, Loral, MonierLifetile, Plantronics, Phelps Dodge, Sony Corporation, Starr Surgical, Sybron Dental Specialties, Danaher, Technicolor, Toshiba Corporation, United Technologies, U.S. Borax, the U.S. Department of Energy, and Warner Bros.

He speaks internationally on finance and manufacturing topics. He has addressed the American Production and Inventory Control Society (APICS), the Council of Logistics Management (CLM), the Product Development Management Association (PDMA), the Society of Manufacturing Engineers (SME), the National Association of Accountants (NAA), and the Young Presidents Organization (YPO).

Mr. Dunn is the recipient of the National Association of Corporate Directors (NACD) 2007 Director of the Year Award. He serves on the boards of directors of both public and privately held international companies. His articles have been published in several trade journals. Mr. Dunn has a degree in business management from California State University, Fullerton.



Ray Thorn specializes in leadership, influencing without alienating, communication, teamwork, conflict management, change management, and interpersonal effectiveness. He has worked with Amgen; Arkema; Avery Dennison; CEMEX; Chevron; the Cities of Glendale, Long Beach, and Los Angeles; ExxonMobil; HOERBIGER; Hughes Aircraft; Jacobs Engineering;

Mattel; Northrop Grumman; Pepsi-Cola; Raytheon; Roche Diagnostics; Rockwell; Sempra Energy; Silicon Systems; SMUD; Southern California Edison; UCLA Medical Center; Union Bank; and Walt Disney Imagineering.

Mr. Thorn coaches executives, managers, and specialists on their interpersonal and organizational skills. He assists them in assessing and enhancing their impact on others, helping them turn tensions into positive, productive working relationships. Mr. Thorn facilitates team building, conflict resolution, and large group interventions to develop alignment, and increase trust and commitment to working together successfully. His training provides participants with models and skills for leading, communicating, managing conflicts, and working together more productively. Mr. Thorn has a master's degree in organizational behavior.

For more information regarding programs offered globally by Caltech's Center for Technology and Management Education, see www.ctme.caltech.edu

For More Information

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