

VIRTUAL **INTEGRATED** SUPPLY CHAIN MANAGEMENT **PROGRAM**

PROGRAM OVERVIEW

The Integrated Supply Chain Management Program, established in 2003, is offered by the Center of Supply Chain Excellence at Saint Louis University. Since then, the program has undergone consistent revisions and improvements to ensure that it always stays current and relevant with the most recent supply chain best practices and technological advancements. The Virtual ISCM curriculum consists of eight individual modules, and it is delivered over Zoom in fourteen 6-hour sessions. On top of that, the participants work in teams to select and complete a process improvement project for a company of their choosing. We welcome projects sponsored by the employers of our program participants and strongly encourage the participants to develop a practical solution to a problem their company is currently facing, along with the implementation plan.



14-session Course + 1 Final Project +
Continuing Education Credential
\$7,250 per person



Individual Session: \$725 per session



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Tier 2 members *

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Project Management and Supply Chain Simulation

What you will learn:

Date: August 14th presented by Ray Scott, MBA, CFPIM, CSCP

- How to perform a computer-based, multi-cycle supply chain simulation
- How to identify issues arising from the simulation, suggest improvements, and test a revised simulation scenario
- How to form project teams and evaluate possible supply chain projects to be completed within the Integrated Supply Chain program - What are the four phases of a project
- The key tools used in preparing and executing a successful project plan

Finance for Supply Chain Professionals

What you will learn:

Date: August 15th presented by Ik-Whan Kwon, Ph.D.

- Fundamentals of supply chain principles
- Common traits for top supply chain performers
- Fundamentals of income and financial statement in supply chain
- Profitability: Return on investment, return on asset and economic profit
- Return on equity
- Flow of financial information within supply chain networks
- Bankruptcy Model

Betting on Uncertain Demand

What you will learn:

Date: August 28th presented by Justin Goodson, Ph.D.

- How to move from point forecasts to likelihoods
- How to use underage costs, overage costs, and demand uncertainty to calculate order or production quantities
- How to use reactive capacity to reduce supply-demand mismatches
- How to improve service levels via consideration of holding costs and back-order penalties

Managing Variability in the Supply Chain

What you will learn:

Date: August 29th presented by Justin Goodson, Ph.D.

- Key supply chain performance measures
- The impact of variability on WIP, flow rate and flow time - Why high utilization intensifies the effects of variability
- Strategies to reduce processing time and input variability
- Tactics to buffer against variability via inventory, capacity, and time
- Why variability pooling can decrease the amount of buffering required to achieve a given level of performance

Managing Inventories for Increased Profitability

What you will learn:

Dates: September 18th & 19th presented by Ray Scott, MBA, CFPIM, CSCP

- About the importance of inventory to the enterprise
- To describe the critical functions of inventory in the supply chain
- How to apply forecasting concepts to optimize supply chain performance
- How to understand methods and value of inventory stratification
- Methods of calculating safety stock
- How to use metrics in managing inventory

Business Analytics for Supply Chain

What you will learn: Dates: October 2nd & 3rd presented by Justin Goodson, Ph.D. & Abhi Gupta, Ph.D.

- Develop supply chain metrics for analysis
- Use supply chain metrics to make business decisions - Forecast demand (using ARIMA model)
- Use proprietary data visualization tools to solve problems- How to use metrics in managing inventory

Strategic Sourcing and Change Management

What you will learn: Dates: October 23rd & 24th presented by Tom Goldsby, Ph.D.

- To determine when to buy versus make
- How to manage supplier performance
- Techniques to measure, evaluate and manage suppliers and costs
- How to avoid significant performance drops when implementing change
- The essential ingredients to change management and implementations

Transportation and Warehouse Management

What you will learn: Dates: November 6th & 7th presented by Tom Goldsby, Ph.D.

- Measure transportation and warehousing performance
- Determine transportation and warehousing costs in the context of total logistics cost
- Assess the interface between transportation and warehousing decisions to optimize customer service and minimize costs
- Apply activity-based management to “right-size” services and costs
- Make key decisions in transportation and warehousing that elevate company performance and sustainable outcomes.

AI in Supply Chain and Simulation

What you will learn: Dates: November 20th & 21st presented by Vineet Sharma

- The Imperative for Supply Chain Transformation in the Digital Age
- Deep Dive into Key Emerging Technologies (AI, Gen AI, IoT, and others)
- Strategizing for Successful Technology Adoption
- The Future-Ready Supply Chain

Project Presentation

Date: December 5th

Participants of the Integrated Supply Chain Management Program, by the end of the 1st module, will embark on a project, in which they will attempt to improve a corporate process. Although the participants could select their own company and process, the assignment will be supervised by the Program Project Managers (supply chain professionals with extensive experience in consulting). This assignment aims to provide the participants with an opportunity to put the skills they learned in the program to use in solving real-world problems.

Thomas Goldsby, Ph.D.

Professor and Chair, Global Supply Chain Institute, Supply Chain Management, The University of Tennessee, Haslam College of Business

Professor Thomas J. Goldsby is the Dee and Jimmy Haslam Chair in Logistics at the Haslam College of Business, University of Tennessee-Knoxville. He holds a B.S. in Business Administration from the University of Evansville, M.B.A. from the University of Kentucky, and Ph.D. in Marketing and Logistics from Michigan State University. Dr. Goldsby is immediate-past Co-Editor-in-Chief of the Journal of Business Logistics and former co-Editor-in-Chief at the Haslam College of Business, University of Tennessee-Knoxville.

He holds a B.S. in Business Administration from the University of Evansville, M.B.A. from the University of Kentucky, and Ph.D. in Marketing and Logistics from Michigan State University. Dr. Goldsby is immediate-past Co-Editor-in-Chief of the Journal of Business Logistics and former Co-Editor-in-Chief of Transportation Journal. He serves as Co-Faculty Director for the Global Supply Chain Institute at Haslam College. His research interests include logistics strategy, supply chain integration, and the theory and practice of lean and agile supply chain strategies. He has published more than 90 articles in academic and professional journals and serves as a frequent speaker at academic conferences, executive education seminars, and professional meetings. Professor Goldsby is co-/author of five books: Logistics Management: Enhancing Competitiveness and Customer Value (MyEducator, 2015), The Definitive Guide to Transportation (Financial Times, 2014), Global Macrotrends and Their Impact on Supply Chain Management (Financial Times, 2013), Lean Six Sigma Logistics: Strategic Development to Operational Success (J. Ross Publishing, 2005), and The Design and Management of Sustainable Supply Chains (Cambridge University Press, under development). Dr. Goldsby is a recipient of multiple best paper awards, and he has received recognition for excellence in teaching at the University of Tennessee, The Ohio State University, University of Kentucky, and Iowa State University. In 2019, he was recognized as a “Rainmaker” by DC Velocity magazine and received the inaugural Lifetime Achievement Award from Supply Chain Leaders in Action (SCLA). Dr. Goldsby delivered a course on Business Operations for The Great Courses’ Critical Business Skills series in 2015, which continues to rate as a bestselling Nonfiction/Business title at audible.com and was rated among the Top 50 bestsellers (#27) among all audiobooks during Summer 2020 by Newsweek.

During his career, Dr. Goldsby has supervised more than 100 Lean/Six Sigma supply chain projects with industry partners, chaired eight Ph.D. dissertations, and served as an investigator on multiple federally funded research projects, exceeding \$3.5 million in grant proceeds. In his spare time, Dr. Goldsby competes as one of the top masters (over-30) runners in America for distances between the mile and the marathon.



Justin Goodson, Ph.D.

Professor in the Department of Operations and IT Management, and Program Director for M.S. in Supply Chain Management, Saint Louis University, Chaifetz School of Business.

Justin Goodson is a Professor in the Department of Operations & IT Management at Saint Louis University's Richard A. Chaifetz School of Business. He obtained a Ph.D. in Business Analytics from the University of Iowa, B.S. and M.S. degrees in Industrial and Manufacturing Systems Engineering from the University of Missouri-Columbia, and an MBA from the University of Missouri-Columbia. Dr. Goodson's research interests center on sequential decision problems with uncertain information, focusing largely on problems arising in transportation and logistics.

Dr. Goodson holds the Father Joseph Davis Professorship and directs the supply chain management graduate program. Dr. Goodson teaches and consults in the areas of operations and supply chain analytics.



Abhimanyu Gupta, Ph.D.

Instructor, Department of Operations and IT Management, Saint Louis University, Chaifetz School of Business

Abhimanyu Gupta is an Instructor of Data Science at Richard A. Chaifetz School of Business at Saint Louis University since 2017. He did his Ph.D. from Ghent University, Belgium, on Information Systems. Before coming to academics, Abhi worked as a Project Manager in the Information Technology industry for 17 years. In 2018, Abhi created a code-generation tool, statsbuddy.net, to help non-technical business students take advantage of advanced data science tools and techniques. The tool is currently used by thousands of students inside and outside Saint Louis University. He also created a platform StatsFy (formerly Data Literacy Workshop) where he and his students teach data science to the aspirants on the weekends for free. Because of these initiatives, Abhi received the Emerson Excellence in Teaching Award in 2021. He is also the recipient of the Graduate Faculty of the Year awards for two consecutive years, 2020 and 2021 and Beta Gamma Sigma Outstanding Teacher Award in 2023. His research area is the intersection of Information Systems, Data Science and Design Science.



D. Ray Scott, MBA, CFPIM, CSCP

Senior Partner – Experience on Demand

Ray Scott brings to the Center for Supply Chain Excellence at Saint Louis University a vast array of experience in Supply Chain, Purchasing, Operations, Marketing, and Accounting. Currently a Senior Partner at Experience on Demand, a consulting firm in Creve Coeur, Missouri, where he specializes in process improvement, project management, and supply chain strategy. Ray served 17 years as Vice President - Supply Chain Management at Code 3, Inc., a manufacturer of emergency vehicle lighting and warning systems. He also held positions in Purchasing, Operations, and Marketing at automated microbiology leader bioMerieux Vitek, with additional financial experience in the mining (AMAX Lead & Zinc) and brewing (Anheuser-Busch Companies) industries.



Ray began his career with the public accounting firm of Coopers & Lybrand (now PricewaterhouseCoopers). Throughout his career, Ray has successfully worked with several international companies and traveled extensively on sourcing trips to China, Taiwan, Malaysia, and Europe. He has also been responsible for creating and implementing procurement and inventory control strategies, including successful cost improvement programs, and several process improvement engagements. Ray developed and has taught the Inventory Management module in the Integrated Supply Chain program for the Center for several years, as well as teaching Project Management. He served as an instructor for the Midwest Gateway Chapter of ASCM, teaching several APICS certification classes. Ray held several board positions, including President, for the Chapter, and served on Regional Staff for APICS. Ray earned an MBA from Washington University and an undergraduate degree from the University of Missouri – St. Louis.

His certifications include Certified Fellow in Production & Inventory Management and Certified Supply Chain Professional from APICS.

OUR FACULTY

Ik-Whan Kwon, Ph.D.

Professor Emeritus of Supply Chain Management, Director Emeritus and Founder of the Center for Supply Chain Excellence, Saint Louis University, Chaifetz School of Business.

Ik-Whan Kwon, Ph.D. serves as Academic Advisor for the MS in Supply Chain Management program. Dr. Kwon is the founding Director of the Center for Supply Chain Excellence and currently serves as Director Emeritus since July 2016. He received his B.A. in Economics from Korea University and first Ph.D. degree in Economics from University of Georgia in 1968. His second Ph.D. degree in Health Services.



Research was awarded in 1990 from the School of Public Health, Saint Louis University. In 2002, Dr. Kwon was a Fulbright Scholar to Korea Development Institute (KDI) School of Public Policy and Management and Yonsei University both in Seoul, Korea. He is a recipient of the National Defense Transportation Association Distinguished Educator Award in 2006 and 2007. He is also a recipient of the Chairman's Commendation Award from the United States Consumer Product Safety Commission. He has published over 100 academics articles in various journals.

Vineet Sharma, MBA, MS - Director, Center for Supply Chain Excellence

Vineet Sharma couples more than two decades of global supply-chain and technology leadership with a passion for executive education. Before joining Saint Louis University in 2024 to lead its Center for Supply Chain Excellence, he spent 15 years at World Wide Technology, building and managing cross-functional teams that delivered large-scale digital supply-chain solutions. His earlier career in international IT consulting honed the systems view he now brings to the classroom. Vineet has a master's in supply chain management from WASHU, an MBA from SLU, an engineering degree from Mumbai University, and an AI & ML postgraduate diploma from UT-Austin.



OUR PROJECT MANAGERS

Frank Fischer, President – Pure Logistics

Frank Fischer has owned and managed Pure Logistics since 2006. Pure is a logistics management company specializing in project logistics supporting the hospitality, retail, and healthcare industries. The company provides transportation, warehousing, and installation management for new and renovation projects for hotels, retail stores, senior living facilities, restaurants, clinics, and hospitals. As a long-time entrepreneur, Frank also started and managed two other logistics companies; InSite Logistics for UniGroup Inc., parent of United Van Lines and Mayflower Transit, and Mesa Logistics in conjunction with partners.



Before becoming an entrepreneur, Frank has held progressive logistics and supply chain positions with Digital Equipment Corporation, a Fortune 100 computer manufacturer, and Bekins Van Lines. Frank secured his Associate's Degree at a community college in Phoenix and both his Bachelor's and MBA from the University of Phoenix. He has been an active member in the Center for Supply Chain Excellence at St. Louis University for 20 years and has held various positions on the Steering and Finance Committees, the Advisory Board, as Board Vice Chairman, and Chairman. Frank is also a 20+ year member of the Council of Supply Chain Management Professionals (CSCMP) and speaks several times per year at various industry or educational functions for a variety of organizations.

OUR PROJECT MANAGERS

Carlton Adams, Chief Operation Officer – Operation Food Search

Carlton Adams is an Operations executive with extensive experience in strategic planning, business development, purchasing/procurement, customer operations, and financial management. Most recently, he served as Acting Executive Director of the National Conference for Community & Justice of Metropolitan St. Louis (NCCJ St. Louis), in addition to being their Board President. From 2017 to 2020 Carlton was Vice President of Pharma Revenue and Invoicing at Express Scripts, where he managed all aspects of pharma invoicing, including strategic planning, operations, and audit. Previously, Carlton worked as Vice President of Global Category Management at Mastercard and as Senior Vice President of Global Supply Chain Management at Peabody Energy.

He also spent 6 years at Caterpillar, Inc., where he was Global Director, Service Parts Purchasing & Supplier Relations. In addition to his non-profit work with NCCJ, Carlton serves as Board Chair of the Christian Hospital Foundation and as Advisory Board Past Chair for the Center for Supply Chain Executives at St. Louis University. He has been an adjunct professor at St. Louis University as well, teaching courses in strategic planning and leadership. Carlton earned his Bachelor of Science in Industrial Engineering at the University of Pittsburgh and his MBA in Finance from Temple University in Philadelphia.



Rebecca McDonough, Vice President Business Transformation – Mastercard

Becky McDonough is a global business leader with years of experience managing international organizations. Becky is currently the Vice President of Business Transformation at Mastercard and adjunct faculty in the business school at St. Louis University. At Mastercard, she is responsible for delivering transformation and operational excellence within the Data & Services business. Her team brings experience and expertise in program and change management, process improvement, process architecture, automation, and the enablement of the go-to-market strategies through operations. Becky thrives on relationships; she has a strong focus on customers, students, employees, and processes, striving to achieve excellence for all.

Her experience has spanned across multiple industries including Education, Life Sciences, Pharmaceuticals, Technology, and Finance. Becky's roles encompass research, quality, operations, supply chain, customer service, and finance. As a leader, she often handles large complex problems that impact the business, overcoming challenges through leadership, innovation, collaboration, and the creation of a strong vision. Becky has a passion for her career although her favorite role is being a wife and a mother to two wonderful young women. Becky graduated from Maryville University with a bachelor's degree in science, a master's degree in business administration, and has a certificate in biotechnology. In her spare time, she enjoys exercising, boating, camping, and traveling. She also sits on the executive board of a non-profit sports and recreation facility within her local community.



SYSTEM REQUIREMENTS

Participants can complete the program and receive a completion credential from Saint Louis University Center for Supply Chain Excellence within 1 semester, or up to 18 months from initial enrollment. For best learning experience and outcome, it is expected that the participants would engage actively with the instructors as well as with other participants. A reliable internet connection, a webcam, and a microphone are required for a successful session. This program is non-academic, completion of the program will result in a continuing education micro credential record at Saint Louis University.

CENTER FOR SUPPLY CHAIN EXCELLENCE STAFF

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Interim Director



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