



# Engineering the Warehouse

Address modern warehouse trade-offs between space and time in optimizing and managing your warehouse.

## COURSE DESCRIPTION

The requirement for high levels of customer service and increasing numbers of SKUs and high labor costs have dramatically increased the complexity of warehouse operations. It is no longer sufficient to manage a warehouse based on “ABC” classification of SKUs, which treats all those in a category as if they were identical. Instead, each decision such as where to store or pick products, must be based on careful engineering and economic analysis. Each SKU must identify its own cheapest, fastest path through the warehouse to the customer, and then compete with all the other SKUs for the necessary resources. This results in efficient warehouse operations finely tuned to patterns of customer orders.

## THIS COURSE WILL ENABLE YOU TO

- Exchange space for time to better meet business objectives
- Understand when to use either dedicated or shared storage
- Identify the most convenient locations in a warehouse
- Identify and use patterns in customer orders to speed fulfillment
- Evaluate warehouse performance
- Optimally size and stock a forward pick area
- Understand the best practices in order-picking
- Understand how to think about automation
- Evaluate and choose a Warehouse Management System

## COURSE TOPICS

- Management of warehouse fundamentals: space and time
- Storage policies: dedicated and shared, and their use
- Warehouse analytics: discover opportunities for improvement
- Size and stock a forward area for split-pallet and split-case picks
- Pallet operations and layout
- Order-picking in high-volume and in low-volume environments
- Benchmarking warehouse performance
- Maintaining inventory accuracy
- Warehouse Management Systems
- Issues and trends in automation

## COURSE INFORMATION

<b>DATE</b>	March 24-26, 2020
<b>LOCATION</b>	Georgia Tech Campus, Atlanta, GA
<b>REGISTER</b>	<a href="http://pe.gatech.edu/eng-warehouse">pe.gatech.edu/eng-warehouse</a>

## COURSE FEES

Standard Course Price	<b>\$3,750</b>
SCL and GT Alumni/ Organization Discount Price*	<b>\$3,375</b>
Certificate Price Per Course <sup>‡</sup>	<b>\$3112.50</b>
<b>Multi-Team Members Discounts</b>	CALL <b>404-385-8663</b>

\*Members of APICS, AST&L, CSCMP, INFORMS, Supply Chain Leadership Council, and WERC receive the “Organization Discount Price” for each course.

<sup>‡</sup>To receive the “Certificate Course Price” for this course, you must prepay in one payment for all courses required to earn a certificate.



## DOAD EARN A GEORGIA TECH SUPPLY CHAIN & LOGISTICS CERTIFICATE

### DISTRIBUTION OPERATIONS ANALYSIS AND DESIGN (DOAD) CERTIFICATE

#### Who Should Receive a Certificate?

Supply chain and logistics professionals and managers across the entire supply chain (procurement, manufacturer, distribution, transportation, warehousing, and retail) who are interested in expanding their knowledge base and are committed to professional advancement.

#### HOW THE DOAD CERTIFICATE WORKS

Take four courses within four years and receive your Georgia Tech Distribution Analysis and Design Certificate. Required DOAD courses include: Engineering the Warehouse; Lean Warehousing; and Warehousing/ Distribution Center Layout. Participants may choose either Material Handling 101 or one other course in the SCM, SDP, LSCP, SCPM, or SCF series for their elective.

#### COURSE INSTRUCTORS

John Bartholdi is the Manhattan Associates Chair in Supply Chain Management and the director of Supply Chain & Logistic Institute's research program at the Stewart School of Industrial & Systems Engineering at Georgia Tech. Dr. Bartholdi teaches supply chain issues, primarily warehousing, at both the undergraduate and graduate levels and in SCL's professional education program. His research centers on problems in warehousing and distribution, but he reserves some time to pursue wider-ranging interests, including mechanics, politics, computer science, geography, and biology. Dr. Bartholdi was named a "Presidential Young Investigator" by the National Science Foundation for 1984-1989. His research work has been supported by the Defense Logistics Agency, the Office of Naval Research, and the Air Force Office of Scientific Research, among others.

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### PROFESSIONAL DEVELOPMENT UNITS

Professional Society members can apply course attendance to meet certification or recertification requirements.

Space is Limited! Reserve Your Seat Today at [pe.gatech.edu/eng-warehouse](http://pe.gatech.edu/eng-warehouse)

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[www.scl.gatech.edu/apps/rsvp/sclaffinity](http://www.scl.gatech.edu/apps/rsvp/sclaffinity)

Complete this course and earn 2.1 CEUs toward the **Distribution Operations Analysis and Design (DOAD) Certificate**.

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