CHARTERED
INSTITUTE OF PROFESSIONAL CERTIFICATIONS

CERTIFIED SUPPLY CHAIN ANALYTICS PROFESSIONAL™

CSCA™

Fully Accredited By:

Chartered Institute of Professional Certifications

CPD Certification Service

CSCA™
CERTIFIED SUPPLY CHAIN ANALYTICS PROFESSIONAL™

PROGRAM OVERVIEW

This **Certified Supply Chain Analytics Professional (CSCA™)** program will teach you how to optimize your organization's supply chain by adopting **advanced data analytics innovations**. You will learn different types of **analytics models (including predictive and prescriptive analytics)** and how it can help you better **predict future demand and increase the accuracy in your supply chain planning**. With powerful best practices in real-time analytics, you will be able to identify **new supply chain risks** and build a strategic plan to counter these disruptions. In addition, you will learn how to apply continuous integrated planning and build a 360-degree real time supply chain analytics dashboard within your organization that will help you **improve your demand planning and forecasting while reducing excess inventories and overproduction**.

By the end of the program and upon passing the Chartered exam, you will have earned the **Certified Supply Chain Analytics Professional (CSCA™)** designation which you can use to demonstrate your professional credentials and track record in supply chain analytics.

Globally demanded and recognized, this designation is an industry-recognized trademarked charter developed by the **Chartered Institute of Professional Certifications** and has lifelong validity. It's also fully accredited by CIPD (Chartered Institute of Personnel and Development), with 160,000 membership organizations worldwide.

ACCREDITATIONS

CPD CERTIFIED
The CPD Certification Service

Trustpilot
4.8

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4.6

KEY SKILLS YOU WILL GAIN

From This Program

SUPPLY CHAIN ANALYTICS
SUPPLY CHAIN PLANNING
DATA-DRIVEN SUPPLY CHAIN
SUPPLY CHAIN OPTIMIZATION

SUPPLY CHAIN REAL TIME ANALYTICS
ADVANCED SUPPLY CHAIN ANALYTICS WITH AI
DATA SCIENCE FOR SUPPLY CHAIN FORECASTING
SUPPLY CHAIN DATA ANALYSIS

MACHINE LEARNING IN DEMAND PLANNING AND FORECASTING
DISTRIBUTION AND LOGISTICS
SUPPLY CHAIN DATA VISUALIZATION

INVENTORY & WAREHOUSE MANAGEMENT
LOGISTICS PLANNING
SUPPLY CHAIN RISK MANAGEMENT
DIGITIZED SUPPLY CHAIN

SUPPLY CHAIN RISK MITIGATION
SUPPLY CHAIN VISUALIZATION DASHBOARD
INDUSTRY 4.0 ADOPTION

YOUR FACULTY DIRECTOR

Eduardo Martinez Fonseca

Award Winning Author, Faculty Leader and Contributor

Faculty Leader for CSCA Europe and US Programs

Eduardo Fonseca is **a Global Supply Chain Analytics Strategist and Senior Consultant** at a **FORTUNE 500** company. His extensive experience in driving the use of data, advanced analytics and new technologies in the supply chain has led him to work with many high-performing **FORTUNE 500** companies, both training and consulting. In his role as a business consultant, he has contributed his invaluable strategies to envision the future of data and technology in their supply chains framework. Eduardo is also a certified trainer by Dale Carnegie and a Senior Consultant in Supply Chain Analytics where he has advanced his program to help clients solve supply chain challenges with data-driven solutions.

YOUR FACULTY DIRECTOR

Dr. Yao Zhao

Award Winning Author, Faculty Leader and Contributor

Faculty Leader for CSCA Asia Pacific and Australia Program

Dr. Yao is a renowned **Supply Chain Analytics Professor at Rutgers Business School and a co-director of their Supply Chain Analytics Lab**. He holds a Ph.D. degree in Industrial Engineering and Management Sciences from Northwestern University, and his research interests lie in supply chain management, analytics and healthcare. He has received **several awards for his research**, including the National Science Foundation Career Award on Manufacturing Enterprise Systems and a Dean's Research Professorship. He is also a speaker at university seminar and industry research laboratories, like Columbia DRO, MIT ORC, Chicago Booth, North-western IEMS, Stanford MS&E, Michigan Ross and Maryland Smith. His research has been published by global media including The European Business Review, Aviation Week & Space Technology and International Innovation.

Yao is currently teaching core operations and supply chain courses at Rutgers Business School, where he has received the **Dean's Meritorious Teaching Award**. His instructional game, Hunger Chain simulation, was nominated for an award that recognizes innovative teaching techniques. Yao is also author of the book **"Supply Chain Analytics: Cases, Games and Solutions"**, which has been adopted by many supply chain management and analytics programs globally.

OUR PARTICIPANTS

Over 70% of FORTUNE 500 Companies Have Attended Our Accredited Programs Before

PROGRAM AGENDA

MODULE 1 - WHAT IS SUPPLY CHAIN?

Lesson 1.1 - Sandwich Example
Lesson 1.2 - Introduction to Supply Chain
Lesson 1.3 - Global Supply Chain Priorities
Lesson 1.4 - Objectives of Supply Chain
Lesson 1.5 - Drivers and Metrics of Supply Chain
Lesson 1.6 - Elements of Supply Chain
Lesson 1.7 - Digital Transformation in Supply Chain

MODULE 2 - WHAT IS DATA & ANALYTICS?

Lesson 2.1 - Data, Analytics and the Enterprise
Lesson 2.2 - Analytics Journey
Lesson 2.3 - Goals and Role of Analytics
Lesson 2.4 - Industry 4.0 and the Supply Chain
Lesson 2.5 - Global Lighthouse Network

MODULE 3 - HARD & SOFT SKILLS

Lesson 3.1 - Venn Diagram of Skills
Lesson 3.2 - Hard Skills
Lesson 3.3 - Soft Skills
Lesson 3.4 - Project Life Cycle & Food Waste Warriors
Lesson 3.5 - Waste Tool 1-5
Lesson 3.6 - SCRUM
Lesson 3.7 - Waste Tool 6-8

MODULE 4 - THE FOUR TYPES OF SUPPLY CHAIN ANALYTICS

Lesson 4.1 - Types of Supply Chain Analytics & Their Application
Lesson 4.2 - Descriptive Analytics
Lesson 4.3 - Diagnostic Analytics
Lesson 4.4 - Predictive Analytics
Lesson 4.5 - Prescriptive Analytics

MODULE 5 - REAL-TIME ANALYTICS

Lesson 5.1 - End2End Supply Chain Insights Model
Lesson 5.2 - Real-time Analytics
Lesson 5.3 - Data Management at Scale
Lesson 5.4 - Big Data & the Data Evolution
Lesson 5.5 - Cloud Computing
Lesson 5.6 - Supply Chain SaaS: Kinaxis

MODULE 6 - TECH TOOLS RELEVANT TO SUPPLY CHAIN ANALYTICS TODAY

Lesson 6.1 - Computational Thinking
Lesson 6.2 - History of Programming Languages
Lesson 6.3 - Use of Programming Languages in Supply Chain Analytics
Lesson 6.4 - Process Mining

PROGRAM AGENDA

MODULE 7 - ADVANCED ANALYTICS

Lesson 7.1 - Environmental, Social and Governance Agenda
Lesson 7.2 - Types of AI
Lesson 7.3 - AI in the Supply Chain
Lesson 7.4 - Machine Learning Intro
Lesson 7.5 - Types of Machine Learning
Lesson 7.6 - Deep Learning

MODULE 8 - IMPACT OF SUPPLY CHAIN ANALYTICS ON THE ESG AGENDA

Lesson 8.1 - Environmental, Social and Governance Agenda
Lesson 8.2 - ESG Analytics
Lesson 8.3 - ESG Data Management
Lesson 8.4 - Intelligent Supply Chain Platform by IBM & Chemonics
Lesson 8.5 - Predictive Reforestation Platform by Deloitte & WWF
Lesson 8.6 - GreenToken by SAP

MODULE 9 - FORESEEABLE THREATS, CHALLENGES & OPPORTUNITIES

Lesson 9.1 - Data Privacy
Lesson 9.2 - AI Ethics
Lesson 9.3 - Machine Learning Challenges & Biases
Lesson 9.4 - Cyber Security Threats
Lesson 9.5 - The Race Human vs. Machines
Lesson 9.6 - eCommerce, Delivery Right Now!

MODULE 10 - THE FUTURE OF SUPPLY CHAIN ANALYTICS

Lesson 10.1 - Internet of Things
Lesson 10.2 - Digital Twins
Lesson 10.3 - Blockchain Technology
Lesson 10.4 - Augmented Reality & Virtual Reality
Lesson 10.5 - Quantum Computing

EXAMINATION

YOUR CHARTER DESIGNATION

Chartered Institute of Professional Certification's programs are unique as they provide you with professional charter designation and mark that can be used across your lifetime once your have completed our programs.

After completing the program and passing the Chartered exam, you will be awarded the **Certified Supply Chain Analytics Professional (CSCA™)** designation that can be used in your resume, CV and other professional credentials. This designation is a global trademark and industry-recognized with lifelong validity.

Globally demanded and recognized, this designation will help you distinguish your supply chain analytics skillsets and demonstrate that you have attained expertise in **supply chain analytics**.

ABOUT US

49,525 Business Leaders Have Attained Their Chartered Certifications Since 2009

390 Certified and Fully Accredited Programs

87% Chartered Leaders Have Reported Career Promotions and Enhancements

Chartered Institute of Professional Certifications

All of Chartered Institute of Professional Certifications programs are fully accredited programs. The professional charter and designations are trademarked credentials that can only be used by professionals who have completed and passed our accredited program. It is also independently accredited by CPD as adhering to the highest standards of continuing professional principles.

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OUR FACULTY DIRECTORS

We Collaborate With Instructors From Renowned Institutions

HARVARD UNIVERSITY

Wharton University of Pennsylvania

Stanford University

UNIVERSITY OF MICHIGAN

LSE THE LONDON SCHOO OF ECONOMICS AN POLITICAL SCIENCE

Columbia Business School

London Business School

CONTACT US TODAY

We Thank You for Your Ongoing Support of Our Programs

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