



CAIPSCM

Certified in AI in Procurement and Supply Chain Management (CAIPSCM)

PROGRAM INTRODUCTION

The future of supply chain is not just digital — it's intelligent. As global disruptions, customer demands, and sustainability pressures intensify, organizations need smarter, faster, and more predictive supply chains. This Certified in Artificial Intelligence in Procurement and Supply Chain Management (CAIPSCM) certification program is designed for procurement and supply chain professionals to systematically translate artificial intelligence (AI) technologies and their applications in procurement, inventory, transportation, demand forecasting, risk management, and other scenarios into practical business impact. Through a balanced mix of theory and hands-on practice, the program aims to develop AI-driven decision-making, process optimization, and business value creation capabilities, enabling graduates to become core drivers of digital transformation within their organizations.

WHO SHOULD ATTEND?

- Mid-to-senior level professionals such as procurement managers, supply chain directors, and operations heads
- Practitioners seeking to upskill into AI-enabled roles (data analysts, quantitative analysts, operations optimization specialists) within supply chain and procurement
- Professionals in supplier management, inventory management, and logistics planning
- Digital transformation project leaders, management consultants, and researchers in academia or industry

PROGRAM OBJECTIVES

- Identify vulnerable sources of materials and inputs.
- Highlight weakness in your supply chain, manufacturing facilities, distribution centers, and transportation.
- Understand how data-driven analytics predict potential disruption in materials parts, labor, and shipments,
- Explain how AI and ML creates recommendations and options for management teams to prevent or mitigate high risk areas of the supply chain.



- Use AI and ML as tools to improve supplier planning and supplier portfolio management to create appropriate redundancy, backup, and recovery options where precisely needed.
- Explain how AI and ML tools help managers to improve accuracy in long-term plans.
- Explain how new tools can help supply chain organizations lower costs of procurement and supply, increased reliability of delivery, and improved overall revenues and customer satisfaction and how AI can help build a stable, predictable, and resilient production chain.
- Use your historical supply chain data with current internal supply chain information.
- Explain how Information tools in the industry use AI apply to specific product, design, lead time.
- Use new AI tools to build supplier redundancy and plan by location, inventory levels, turnover, and possible disruptions.
- AI allows multiple simulations to use current and historical orders to plan multiple reactions to delays in transportation, manufacturing, production, logistics delays and returns.
- Use of data, and problems with data such as compatibility, cleansing, and integrating with our current systems.
- Explain how machine learning algorithms can identify and rank potential problems.
- Constant monitoring and plans for production delays and delivery risks with customer importance by product line over time.
- Machine Learning and AI algorithms and how they are designed to calculate associated impacts to customer delivery on a product-by-product basis.
- Understand tools available to identify specific effects of forecasted delays and resulting cost to customers and trace back effects on your own company.
- Show how companies use up-to-the-minute dashboards to manage supply network status, supplier health, customer and product delivery risks, and global transport and logistics risks

Module 1: Foundations of AI in Procurement and SCM Topics

- What is Artificial Intelligence?
 - Big Data
 - Algorithms
 - Machine Learning
 - Natural Language Processing
- What is Deep Learning?
- Augmentation vs Automation
- The Business Case for AI in Procurement and SCM Delivery Notes
- Format: Online and/or blended delivery
- Emphasis on building a common vocabulary and business context for AI in SCM



Module 2: The Automation of Work and the Future of Jobs Topics

- How AI will change jobs
- Insights from major workforce studies on the future of work
- Which jobs will be automated? Which new jobs will emerge?
- Change management foundations for AI adoption Delivery Notes
- Format: Interactive lectures, case discussions, and reflective activities
- Focus on strategic implications for workforce planning and organizational readiness

Module 3: The Automation of Procurement Topics

- Impact of AI on Procurement
- AI in Performance Management Delivery Notes
- Format: Case-based learning and application workshops
- Focus on translating AI capabilities into procurement strategy and operations

Module 4: Procurement Analytics and Data-Driven Decision Making Topics

- The Importance of Analytics in Procurement
- Case studies in Using Analytics
- Using Big Data: Gathering and Mining Procurement Data
- Types of Analysis: Descriptive, Predictive, Prescriptive
- Metrics and Procurement KPIs
- AI in Practice: Key areas where AI can support Procurement
 - Spend Classification
 - Vendor Matching
 - Capturing Supplier or Market Data
 - Anomaly Detection
 - Supplier Risk Management
 - Contract Administration
- AI Procurement Software landscape and governance considerations
- Functions that will not be automated
- Ten Benefits of Sourcing Automation
- Future of the Procurement Function Delivery Notes
- Format: Hands-on labs, datasets, and case simulations
- Emphasis on data preparation, modeling considerations, and KPI-driven evaluation

Module 5: Fundamentals of AI in Logistics and SCM Topics

- Why Artificial Intelligence in Logistics and Supply Chain?
 - Accurate Inventory Management

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- Smart Warehouse Handling
- Enhanced Safety in the Work Environment
- Reduced Operational and Transportation Costs
- On-Time Delivery Delivery Notes
- Format: Practical demonstrations and scenario-based exercises
- Focus on translating AI capabilities into tangible logistics improvements

Module 6: Impact of AI on Supply Chain Management and Capstone Concepts Topics

- Which supply chain processes are most impacted by AI?
- Forecasting and Planning
- Warehousing and Robotics
- Manufacturing/Operational Efficiency and Customer Service
- Workforce Organization
- Route Optimization
- Automation at all levels
- AI in Logistics and AI in Supply Chain Planning
- Five Ways to Leverage AI in SCM
- Focus on value at risk
- Avoid black-box approaches
- Eliminate waste
- Turn down the noise
- Embrace collaboration
- AI Skills Needed Capstone Concept
- Capstone/Group Project: Develop an end-to-end AI-enabled SCM concept (problem definition, data plan, model approach, impact assessment) Delivery Notes

Delivery Mode (Designed for Busy Professionals)

We understand that you cannot halt operations to upskill. Our flexible, high-impact delivery model ensures zero disruption to your business hours:

Virtual Interactive Classroom: Live, facilitator-led online sessions that combine real-time strategic lectures with interactive peer discussions and practical case analyses.



The Pain (Why This Course is Critical Right Now)

The supply chain landscape has grown increasingly volatile, and traditional, rule-based methods are no longer enough to keep up. Procurement and supply chain professionals face severe operational bottlenecks that drain profitability and create constant operational friction:

- **Reactive Crisis Management:** Constantly firefighting unexpected supply chain disruptions, material shortages, and supplier failures after they happen, rather than predicting them.
- **The Technical Barrier:** Feeling overwhelmed by the rapid rise of Artificial Intelligence, mistakenly believing you need a computer science or data science degree to leverage it effectively.
- **Inefficient Decision-Making:** Wasting hours manually drafting tenders, evaluating complex vendor proposals, or relying on gut-feel forecasting that leads to costly inventory errors.
- **Career Stagnation:** The nagging risk of becoming obsolete in a rapidly shifting, data-driven business environment where AI-savvy professionals are out-pacing the market.

The Gain (How You and Your Organisation Will Benefit)

This program bridges the gap between complex AI theory and day-to-day business execution. By completing this certification, you will achieve an immediate ROI and a sharp competitive edge:

- **Proactive Risk Shielding:** Learn to leverage modern predictive tools to anticipate and mitigate supply chain disruptions before they impact your operations.
- **Strategic Decision Augmentation:** Understand how to confidently use prompting, agentic workflows, and autonomous solutions to automate routine procurement choices, optimize sourcing, and sharpen forecasting accuracy.
- **Corporate Leadership:** Gain the strategic framework and "vocabulary" to confidently speak the language of AI, allowing you to design an AI Transformation Blueprint you can implement in your organisation immediately.
- **Accelerated Global Certification:** Earn an internationally recognized credential, vastly accelerating your professional marketability.

Why Use Us (Our Unique Added Value)

- **Veteran, Real-World Facilitation:** Our courses are led by a seasoned expert with over 40 years of cross-sector leadership and deep manufacturing experience, ensuring every concept is backed by practical, real-world context.
- **The "Executive Viewpoint" Model:** We focus entirely on strategic application and management outcomes. We teach you how to master the "steering wheel" of AI rather than getting bogged down in the underlying code.
- **Exclusive Premium Toolkits:** Every participant receives highly acclaimed literature, including "The AI Steering Wheel," serving as an immediate operational toolkit packed with ready-to-use, supply-chain-specific frameworks.
- **Proven Global Impact:** Delivered in partnership with global procurement networks to provide practical skills that yield results on day one.

Meet the Course Director

Ronnie Davidson

GSB UCT, IMM, CPIM, CSCP, CISCN, CISCP, CIWIM, CIPTC, CIPP, CIPM, CDDP, CAIPSCM



A seasoned professional with many years in industry starting in the IT industry, rising from sales trainee to Strategic Marketing Manager for a large international player in just 4 years. Armed with an IMM merit award, Ronnie's journey includes transitioning from ICL's outsourcing division to founding Business Learning Systems SA. His consulting role at the Atomic Energy Corporation and later as a managing director of an engineering company showcased his success in reducing lead times, improving deliveries, and boosting sales.

Certified as a Supply Chain Professional and Demand Driven Professional, Ronnie also collaborated with Brian Maskell and Associates, as their South African consultant for lean accounting.



Recent years see Ronnie working ever more closely with DR Graw and the IPSCMI team delivering certified courses in supply chain management and procurement in Africa and overseas. This partnership has now developed the unique business accounting and finance course specifically for aspiring procurement managers.

With the advent of AI, and based on his experience of procurement and supply chain, he published a book, PROMPT POWER-UP to help those managers break the mystique of AI and fast track adoption and implementation to get a head start on competitors. Combining his research into AI and his accumulated business knowledge, he designed the CAIPSCM course integrating AI with supply chain and procurement management.

With qualifications in manufacturing, marketing, sales, and supply chain he personally conducts courses for leading African companies, training over 4,500 managers and salespeople, from companies including IBM, Business Connexion, Altron, AECI, and Denel. Ronnie's wealth of experience and practical knowledge make him a standout presenter, addressing challenging questions with proven insight.

