

Retail Supply Chain

# Data Analytics Certification Course

Be a Citizen Data Scientist in the Digital Age



Get Hands-on with Open-Source Software  
and Acquire International Certifications

# Become a CDPOS™ Certified Data Professional in Open-Source Software



Equip data literacy, even for non-tech personnel



Acquire international certifications recognised by industry



Practise with real data and learn from industry best practices



Merge data literacy with retail supply chain domain knowledge



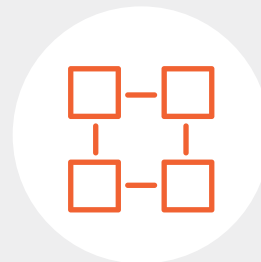
Develop open-source software skills in Apache Superset, Jupyter Notebook & Python required by digital transformation organisations



Apply data skills to real-world problems



Flexible learning schedule with video-on-demand curriculum and live tutorial sessions



Authentic Role-Based Certificates verifiable by blockchain and GS1 HK anti-counterfeit code

# Build Data Talent in Retail Supply Chain



**Module**  
**01** **Big data and open-source fundamentals**

**Module**  
**02** **Data Citizen**  
role accomplished with fundamental data literacy

**Module**  
**03** **Citizen Data Scientist**  
role accomplished with intermediate data literacy

**Module**  
**04** **Advanced Citizen Data Scientist**  
role accomplished with high-intermediate data literacy

  
**Course Journey**



**Note:**

- Role achievement upon successful completion of exam
- Details are subject to change without prior notice
- Please contact GSI HK for latest information

# Course Curriculum



## Module 1

### Part 1 Supply Chain Management Certification

- Core data components and effective data capturing technologies for supply chain
- Improve supply chain management by the use of data

### Part 2 Big Data and Open-source Fundamentals Certification

- Impact of big data and open-source development in the technology ecosystem
- New best practices in a big data analytics environment
- Introduction to data visualisation technology and data communication



## Module 2

### Part 1 Quality Data Management Certification

- The importance of data quality for data analytics
- Enhancing data quality

### Part 2 Data Visualisation Essentials Certification

- Interpret, clean, correlate and summarise data
- Design and build data visualisation dashboard with Apache Superset
- Best practices of data visualisation applications in business context



## Module 3

### Part 1 Supply Chain Best Practices Certification

- Unlock data insights with analytics tools
- Best practices and real world case sharings

### Part 2 Data Analytics Essential Certification

- The objectives and process of diagnostic analytics
- Data modelling for diagnostic analytics with multiple data sources
- Prepping data with Jupyter Notebook, Python & SQL Lab
- Perform diagnostic analytics with Apache Superset
- Select appropriate machine learning algorithm with Python & scikit-learn



## Module 4 (Instructor-led live training)

### Part 1 Supply Chain Scorecard / Measurement Certification

- Supply Chain Scorecard & Measurement of functional enhancement and effectiveness
- Application of Data Analytics with Python in Retail & Supply Chain

### Part 2 Python for Big Data Analytics Certification

- Machine Learning (ML) and Artificial Intelligence (AI)
- Machine Learning best practice - CRISP-DM
- Popular Machine Learning algorithms (Logistic Regression, SVM, KNN, Random Forest & Naive Bayes)
- Data analytics with Python

**CDPOS™**

CDPOS™ (Certified Data Professional in Open-source Software) is an international Skills Certification designed specifically for Open-source Software.

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