

Big Data and Healthcare Supply Chain Management

Fees: \$850

Funding: 70% to 90% SSG Subsidy

Duration: 1 days

Course Schedule 22 May 2020 (Friday)

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Synopsis

This program provides an in-depth appreciation on the application of big data in healthcare supply chain. Upon completion of this program, participants will learn how to use descriptive, diagnostic, predictive and prescriptive analytics to uncover insights in the Healthcare Supply Chain Environment. Participants will gain understanding of the future opportunities of integrating AI and analytics in healthcare services and the positive impacts it will have on healthcare operations.

Who Should Attend?

Professionals, managers and executives (PMEs) who are entering the healthcare industry as well as healthcare professionals who aspire to move into a management role.

Topics

- Environment & Ecology
- Professionalism & Ethics
- Communications & Relationships
- Leadership & Decision-Making
- Planning & Evaluation

Objective

- What is Artificial Intelligence, Business Intelligence and Big Data in Hospitals?

- Applications of Business Intelligence in Hospitals
- Best practices for analyzing healthcare data
- Key challenges in hospital SCM
- Application of big data for fact-based decision making during:
 - a. Value Analysis
 - b. Sourcing and Procurement
 - c. ERP Implementation
 - d. Process Improvement
 - e. Inventory Management
- How to establish effective analytics and align to business goals
- Application of AI for demand driven material requirements planning
- Practicum – Designing and the application of supply chain data analytics dashboard

B. Key Skills (Practical Component)

Learning Outcomes

A. Knowledge and Understanding (Theory Component)

- At the end of this course, participants should be able to:
- Identify opportunities for the application of data analytics in Healthcare SCM
- Identify areas in their own environment to apply descriptive, diagnostic, predictive and prescriptive analytics
- Understand the important role of logistics, pharmacy operations management, inventory management and supply chain management in healthcare operations

B. Key Skills (Practical Component)

- At the end of this course, participants should be able to:
- Learn how to effectively execute data analytics that will capture and integrate large complex data sets
- Deploy big data technology to manage the data effectively and efficiently

Requirements

- Possess at least two years of working experience.

Schedule

Time	Agenda
09:00 – 09:30	Introduction to Healthcare Supply Chain Management
09:30 – 10:30	What is AI, BI and Business Applications in Hospitals
10:30 – 11:00	Tea Break
11:00 – 11:30	Best Practices for Analyzing Healthcare Data
11:30 – 12:00	Key Supply Chain Challenges
12:00 – 12:30	Application of big data and AI in Healthcare SCM
12:30 – 13:00	How to establish effective analytics and align to business goals
13:00 – 14:00	Lunch
14:00 – 14:30	Importance of Supply Chain Management in healthcare operations
14:30 – 15:30	Designing and the application of supply chain data analytics dashboard (Theory)
15:30 – 16:00	Tea Break
16:00 – 17:00	Designing and the application of supply chain data analytics dashboard (Practical)

Course Fee

	International Participants	S'poreans (aged below 40) and PRs	SkillsFuture Mid-Career Enhanced Subsidy ¹ (S'poreans aged 40 and above)	Workfare Training Support ² (S'poreans aged 35 and above, and earn ≤ \$2,000 per month)	Enhanced Training Support for SMEs ³
Full Course fee (A)	\$850	\$850	\$850	\$650	\$850
SSG grant (70%) (B)	-	(\$595)	(\$595)	(\$595)	(\$595)
Nett course fee (A) - (B) = (C)	\$850	\$255	\$255	\$255	\$255
7% GST on nett course fee (D)	\$59.50	\$17.85	\$17.85	\$17.85	\$17.85
Total nett course fee payable, including GST (C) + (D) = (E)	\$909.50	\$272.85	\$272.85	\$272.85	\$272.85
Less additional funding if eligible under various schemes (F)	-	-	(\$170)	(\$212.50)	(\$212.50)
Total nett course fee payable, including GST, after additional funding from the various funding schemes (E) - (F) = (G)	\$909.50	\$272.85	\$102.85	\$60.35	\$102.85

¹ **Mid-Career Enhanced Subsidy:** Singaporeans aged 40 and above may enjoy subsidies up to 90% of the course fees.

² **Workfare Training Support:** Singaporeans aged 35 and above (13 years and above for Persons with Disabilities) and earning not more than \$2,000 per month may enjoy subsidies up to 95% of the course fees.

³ **Enhanced Training Support for SMEs:** SME-sponsored employees (Singaporean Citizens and PRs) aged 21 and above may enjoy subsidies up to 90% of the course fees.

- **Participants are required to achieve at least 75% attendance and/or sit and pass any prescribed examinations/assessments or submit any course/project work (if any) under the course requirement.**
- **Participants are required to complete all surveys and feedback related to the course.**
- **The course fees are reviewed annually and may be revised. The University reserves the right to adjust the course fees without prior notice. Singapore University of Social Sciences reserves the right to amend and/or revise the above schedule without prior notice.**

About Our Trainer



Mr Lawrence Koh has been a logistician for the greater part of his career starting as a young technical Storeman with the Singapore Air Defense Command in 1971 before graduating to be an Air Supply instructor at the Air Engineering Training Institute in 1980. He made a mid-career change after completing 17 years of service with the Republic of Singapore Airforce in 1988 at the age of 34 to help set up the restructured Singapore General Hospital Materials Management Department.

In 1991, Lawrence left the public hospital and went on to join the Singapore private healthcare, starting with East Shore Hospital and subsequently as the Operations Manager for Supply Chain at Mount Elizabeth Hospital. In 1996, Lawrence left Parkway Healthcare and started his own consultancy company, Healthcare Logistics Services (HLS) and completed various hospital and clinic projects in Singapore, Thailand, Hong Kong, Malaysia and the Philippines.

Lawrence started Asia Healthcare Logistics (AHL) in Thailand after working for 10 years with a premier 554-bed private hospital in Bangkok. Projects under AHL included the design and planning of a medical center in downtown Bangkok; provided medical equipment sourcing expertise to a diagnostic company in Myanmar; introduced Supply Chain solutions and operational activation support to two public hospitals in Abu Dhabi; set up a Group Purchasing

company for a private hospital in Cairo; initiate the set up and operationalize the Materials Management department for a private hospital in Shanghai, China.

In 2014, he was contracted for three years by Cleveland Clinic Abu Dhabi to lead a team of 100 logisticians, procurement specialists and data analyst; establish the Planning and Procurement department, and operationalize the logistics, warehouse and distribution network throughout the hospital. He initiated the implementation of GS1 global standards for product identification at Cleveland Clinic Abu Dhabi; making it the first hospital in the UAE to adopt a standard for the tracking and tracing of medical devices and pharmaceuticals from the manufacturers to the point of care. Having served as the Executive Director for Supply Chain until May 2018, he returned to his consultancy business at Asia Healthcare Logistics.

Lawrence received his Bachelor of Business degree with distinction in Transport and Logistics Management from the Royal Melbourne Institute of Technology, Australia. He is a Certified Materials & Resource Professional with the American Hospital Association USA and a member of the Association for Healthcare Resource and Materials Management.