

ADVANCED CERTIFICATE SUPPLY CHAIN INNOVATION AND TRANSFORMATION

A joint development program in partnership with Singapore Management University Academy. The Advanced Certificate in Supply Chain Innovation & Transformation is part of the Advanced Diploma in Logistics and Supply Chain Management and Transformation course.

THE ADVANCE OF
TECHNOLOGY IS BASED ON MAK-
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EVEN NOTICE IT, SO IT'S PART OF EVERY-
DAY LIFE.

BILL GATES

SUPPLY CHAIN & LOGISTICS TRANSFORMATION

The Advanced Certificate in Supply Chain Innovation & Transformation is the second part of the Advanced Diploma in Logistics and Supply Chain Management & Transformation program offered by Singapore Management University. This program is designed, developed and facilitated by Supply Chain Asia.

Supply chain management is under increasing pressure from both classic and contemporary challenges, such as pressure to increase overall efficiency and manage a more complicated vendor mix, respectively; now, a host of digital innovations offer more opportunity to address these challenges.

For all the effort that companies devote to improving the performance of their supply chains, relatively few have unlocked the full potential of digital technologies. Seizing that opportunity, however, has proved surprisingly difficult for many companies.

A common error is to overlook operational changes that would let a company take full advantage of digital technologies.

Technology is transforming every industry in the world, and it's making a big impact on logistics and supply chain management. Today, many companies are evaluating the benefits and challenges in adopting and implement such innovations.

If you're not managing your supply chain through smart software, you are falling behind. Ultimately, it all comes down to

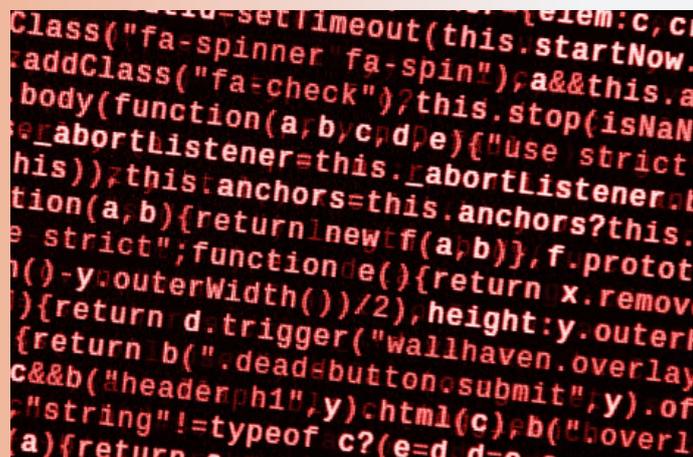
reducing errors, minimizing operating costs while improving the bottom line and ensuring complete transparency between the business and the consumer market.

This programme aims to provide participants with leading-edge practices from the digital world that can improve their company's growth, flexibility, speed and efficiency. In this practice-based training course, participants will be equipped with a holistic overview of the supply chain business function involving the transformation of the supply chain operations.

Machine Learning, Deep Learning and Artificial Intelligence.

One of the technologies that will be explored in this programme. Participants will be provided with a step-by-step hands-on practical on how this technology is impacting the supply chain industry and its adoption challenges.

Also covered in the programme will be the use of Internet of Things and its adoption in environment sensing and data collection.



PROGRAM BENEFITS

The benefits of having tech skills and knowledge go far beyond the information technology industry. With a deeper knowledge of the application benefits and challenges in the adoption of emerging technologies, you can become more proactive and confident in evaluating its implementation as well as improve both your personal and professional life.

Technology is the primary reason that workers today are more productive than ever. Technology has impacted everything from manufacturing to communication – what used to take hours in these fields now takes minutes (or even less).

TRAINING OUTLINE



An effective transformation depends on a creative, forward-looking concept for the future supply chain.

This means thinking about the outlook for the company, amid the pressures and trends that influence its competitive situation, as well as the changing expectations of its customers. A supply-chain digital transformation is about establishing a vision for how digital applications can improve service, cost, agility, and inventory levels and consistently implementing process and organisational changes that use these technologies to drive operational excellence.

This advanced certificate programme provides participants with training in leading-edge practices from the digital world that can improve their company's growth, flexibility, speed and efficiency.

The programme includes coverage in the following topics:

- Digitalisation and its impact on Supply Chain
- Advanced Analytics and Business Intelligence
- Internet of Things: Sensors and Actuators
- Autonomous Technologies and Robotics

All trainees will be provided with a basic toolkit to put together an Innovation & Transformation Roadmap. This toolkit is based on the Smart Industry Readiness Index (SIRI).

SIRI is an industry initiative led by the Singapore Economic Development Board (EDB) in partnership with a network of leading technology companies, consultancy firms, and industry, and academic experts. SIRI comprises a suite of frameworks and tools to help manufacturers – regardless of size and industry – start, scale, and sustain their manufacturing transformation journeys.

Soon, the AI-enabled supply chain will begin to migrate to machine learning. Currently, supply chain management systems consist of developers programming business rules, telling computers what to look for and what action to take when it encounters those situations. Still, as AI migrates to machine learning, it will begin to think for itself. As machine learning becomes more advanced, technologies will increasingly be able to note repetitive situations and past experiences to start learning and making recommendations on their own. Technology like this is being deployed on a wide scale in other industries, and it has the potential to rapidly automate and improve a wide range of supply chain processes.

MODULES

Module 1 - The Digitalisation of Supply Chain – Insights and Outlook (3-day)

This module focuses on the opportunities created by digitization, by new consumer segments and integrated technologies and explore how to get more value from your supply chain and improve profits. The program will review cost efficiencies that can be achieved, explore ways to get faster, more flexible, to stay ahead of competitors and meet changing consumer expectations.

Module 2 – Introduction to Innovation Transformation and Project Management (3 days)

This module focuses on the opportunities created by digitization, by new consumer segments and integrated technologies and explore how to get more value from your supply chain and improve profits. The program will review cost efficiencies that can be achieved, explore ways to get faster, more flexible, to stay ahead of competitors and meet changing consumer expectations.

Module 3 – Internet of Things: Sensors and Actuators (3 days)

The Internet of Things (IoT) is everywhere. It provides advanced data collection, connectivity, and analysis of information collected by computers everywhere—taking the concepts of Machine-to-Machine communication farther than ever before. The contents in this module will provide a foundation in the Internet of Things, including the components, tools, and analysis by teaching the concepts behind the IoT and a look at real-world solutions such as RTLS (real time location system)

Module 4 – Autonomous Technologies and Robotics (3 days)

This module provides trainees with a working knowledge of methods for design and analysis of robotics and intelligent systems. Training structure will be aligned to modelling dynamic systems, measuring and controlling their behaviour, and making decisions about future courses of action. Participants will also get to engaged in hands-on exercises in programmable STEM robot.

Module 5 – Advanced Analytics and Business Intelligence (3 days)

Business Intelligence (BI) has become an integral part of most companies today. In the era of analytics, it is crucial to create a BI strategy that is aligned with the overall corporate strategy. In this module, participants will be provided with basic understanding and tools to evaluate large amounts of data. This includes developing basic understanding of Python and the application of Jupyter Notebook. Through this, they will be able to use the data to identify new opportunities and create an effective plan based on the insights it provides. Companies will also be able to use the analytical data to understand the many changes and challenges that occur within their own business and the market in which they operate.

COURSE FEES

	SG (below 40 years old)/ Permanent Residents	Singaporeans (40 years old and above)	International Participants
Self Sponsored	\$4,815 [^]	\$1,815 [†]	\$16,050
SME Sponsored	\$1,815 [*]	\$1,815 [†]	\$16,050
Non SME Sponsored	\$4,815 [^]	\$1,815 [†]	\$16,050

All prices include 7% GST

[^] Up to 70% course fee funding

^{*} Up to 90% course fee funding for employees of SMEs under Enhanced Training Support for SMEs ("ETSS")

[†] Up to 90% course fee funding under SkillsFuture Mid-Career Enhanced Subsidy ("MCES")



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