



AI-enhanced Lean Six Sigma in Life and Health Industry Advanced Workshop

This intensive one-day training is designed to equip professionals with the tools to merge Lean Six Sigma (LSS) methodologies with cutting-edge AI technologies, creating powerful solutions for quality improvement, process optimization, and regulatory compliance. This course bridges traditional LSS rigor with AI's predictive power to solve complex industry challenges.

Programme code	P0000094
Date and time	13 Jan 2026 (Tue) 09:00 – 17:00
Venue	Room 121, 1/F, HKPC Building, 78 Tat Chee Avenue, Kowloon Tong, Hong Kong
Medium	Cantonese
Course fee	HK\$1,300
Target Audience	Professionals in life and health industry, particularly those involved in manufacturing management and product development or anyone interested at life and health industry.

Objectives

- ✓ Introduce the integrated **AI-enhanced Lean Six Sigma (LSS)** and **Theory of Constraints (TOC)** methodology, shifting focus from cost-cutting to maximizing system output.
- ✓ Demonstrate breakthrough improvements in life and health industry processes using **real-world examples and case studies**.
- ✓ Equip participants with insights on how **AI augments LSS tools** for **advanced data analysis, predictive analytics, and root cause identification**.
- ✓ Reinforce learning through **interactive games, group discussions, and hands-on exercises** for real-world application.

Course Outline

Activity	Speaker
1. Introduction to Lean Six Sigma and Its Evolution <ul style="list-style-type: none"> • Overview of Lean Six Sigma principles and methodologies. • Latest advancements integrating AI with Lean Six Sigma. • Relevance of Lean Six Sigma in the life and health industry. 	Ir Dr Y K Chan
2. Lean Six Sigma in Pharmaceutical Manufacturing <ul style="list-style-type: none"> • Case study: Reducing defects in vaccine fill and finish processes. • Application of Lean Six Sigma to improve manufacturing efficiency. • Strategies for identifying and addressing operational bottlenecks. 	Ir Dr Y K Chan
3. Systemic and Operational Improvement Strategies <ul style="list-style-type: none"> • Techniques for spotting improvement opportunities at corporate and systemic levels. • Using AI to identify and prioritize operational enhancements. • Practical exercises for systemic process optimization. 	Ir Dr Y K Chan
4. AI Fundamentals for Process Optimization <ul style="list-style-type: none"> • Core concepts of artificial intelligence and its applications. • Role of AI in enhancing Lean Six Sigma methodologies. • Introduction to AI Copilot for operational analysis. 	Dr Sebastian Chan
5. AI-Driven Design for Six Sigma (DFSS) Applications <ul style="list-style-type: none"> • Case example: Developing an electromechanical arthroscopic shaver. • Leveraging AI to enhance DFSS for product development. • Best practices for integrating AI into design processes. 	Dr Sebastian Chan
6. Interactive Learning: Simulation and Process Management <ul style="list-style-type: none"> • Simulation game: Identifying improvement opportunities in process management. • Hands-on exercises to apply AI-enhanced Lean Six Sigma techniques. • Case Example: Smartification and automation in manufacturing processes. 	Dr Sebastian Chan and HKPC

Trainers' Profile

Ir Dr Y K Chan

- MSc (Cranfield), EngD (Warwick), DMgt (IMC/SCU)
- Registered Engineer, Fellow HKIE, MBB, TOC Practitioner
- Chairman, Six Sigma Institute
- Industrial Fellow, University of Warwick; Visiting Professor, Beijing Normal University
- Led 47 Six Sigma projects; trained 5,000+ professionals

Dr Sebastian Chan, MBA, PhD, Post Doc (Oxford)

- MBA, PhD, Postdoc (Oxford)
- Registered MBB, Lean Six Sigma Black Belt, TOC Practitioner
- General Manager, Six Sigma Institute & SBTI-HK Ltd
- Visiting Professor, Guangdong Institute
- Provided consultancy to over 30 public hospitals and 5 private hospitals
- Awards: China Lean Management First Prize, National QIC Innovation Award

Enrolment method

Please complete the enrolment form ([Download here](#)) and return the form by below method:

1. Email to patricktham@hkpc.org
2. Send us the crossed cheque payable to "Hong Kong Productivity Council" by post within two weeks.
Mailing Address: HKPC Building, 78 Tat Chee Avenue, Kowloon Tong, Kowloon, Hong Kong (Attn: [NID] Ir Patrick THAM). Please write down your full name, contact no. and course name at the back of the cheque.

Register Now



Remarks

- (i) Enrolment is made on first-come-first-served basis.
- (ii) Application will be processed only upon receipt of the completed enrolment form and payment.
- (iii) Please contact the Secretariat if you would like to complete the course fee by other payment methods.

人工智能赋能精益六西格瑪 在生命與健康產業的進階工作坊

這為期一天的密集培訓旨在為專業人士提供工具，將精益六西格瑪（LSS）方法論與尖端人工智能技術相結合，創造出強大的解決方案，以提升質量、優化流程並確保監管合規。本課程將傳統LSS的嚴謹性與人工智能的預測能力相結合，以應對複雜的行業挑戰。

課程編號

P0000094

日期及時間

2026年1月13日 (星期二)
09:00 – 17:00

地點

九龍達之路78號生產力大樓
121室

語言

廣東話

課程費用

港幣1,300元

備註

生命與健康產業的專業人士，特別是參與製造管理和產品開發的人員，或對生命與健康產業感興趣的人士

目標

- ✓ 介紹整合人工智能赋能精益六西格瑪（LSS）與約束理論（TOC）的方法論，將焦點從成本削減轉向最大化系統輸出。
- ✓ 通過現實世界的案例和研究，展示生命與健康產業流程中的突破性改進。
- ✓ 為參與者提供洞見，了解人工智能如何增強LSS工具，用於數據分析、預測分析和根本原因識別。
- ✓ 通過互動遊戲、小組討論和實操練習，強化學習以應用於現實場景。

課程大綱

活動	講者
1. 精益六西格瑪及其演進概述 <ul style="list-style-type: none"> 精益六西格瑪原則與方法論簡介。 人工智能與精益六西格瑪整合的最新進展。 精益六西格瑪在生命與健康產業的應用價值。 	陈旭球 博士, 工程师
2. 製藥製造中的精益六西格瑪 <ul style="list-style-type: none"> 案例研究：減少疫苗填充與封裝缺陷。 應用精益六西格瑪提升製造效率。 識別與解決運營瓶頸的策略。 	陈旭球 博士, 工程师
3. 系統性與運營改善策略 <ul style="list-style-type: none"> 企業與系統層面改善機會的識別技術。 利用人工智能優化運營優先級。 系統流程優化的實操練習。 	陈旭球 博士, 工程师
4. 人工智能在流程優化中的基礎 <ul style="list-style-type: none"> 人工智能核心概念及其應用。 人工智能在增強精益六西格瑪中的作用。 AI Copilot在運營分析中的介紹。 	陳耀榮 博士
5. 人工智能驅動的六西格瑪設計 (DFSS) 應用 <ul style="list-style-type: none"> 案例示例：開發電機驅動關節鏡手術刀。 利用人工智能提升DFSS產品開發效率。 將人工智能融入設計流程的最佳實踐。 	陳耀榮 博士
6. 互動學習：模擬與流程管理 <ul style="list-style-type: none"> 模擬遊戲：識別流程管理中的改善機會。 實操練習：應用人工智能增強型精益六西格瑪技術。 案例示例：製造流程的智能化與自動化。 	陳耀榮 博士 與 香港生產力 促進局

培訓師簡介

陈旭球 博士, 工程師

- MSc (Cranfield), EngD (Warwick), DMgt (IMC/SCU)
- 註冊工程師，香港工程師學會 Fellow 會員，六西格瑪黑帶大師，約束理論實踐者
- 六式碼學會主席
- 工業院士，華威大學；客座教授，北京師範大學
- 領導47個六西格瑪項目，培訓超過5,000名專業人士

陳耀榮 博士

- MBA, PhD, Postdoc (Oxford)
- 註冊六西格瑪黑帶大師、精益六西格瑪黑帶、約束理論實踐者
- 六西格瑪學會及SBTI-HK有限公司總經理
- 廣東研究院客座教授
- 為超過30家公立醫院及5家私立醫院提供諮詢服務
- 獲得中國精益管理一等獎、國家QIC創新獎

報名方法

請填妥報名表 ([點擊此處下載](#)) 並通過以下方式提交：

1. 電郵至 patricktham@hkpc.org
2. 請於兩週內將劃線支票 (抬頭為「香港生產力促進局」) 郵寄至：香港九龍塘達之路78號生產力大樓 (收件人：[新
型工業化部] 譚先生) 。請在支票背面寫上您的全名、聯繫
電話及課程名稱。

立即登記



備註

- (i) 報名以先到先得為原則。
- (ii) 報名申請需在收到完整報名表及款項後方可處理。
- (iii) 如需以其他付款方式繳交課程費用，請聯繫秘書處。