

# INTRODUCTION TO PRODUCT DEVELOPMENT AND QUALITY MANAGEMENT SYSTEMS FOR HEALTH AND MEDTECH INNOVATIONS

## Date & Time

### Run 1

Monday  
02 October 2023  
09:00 am - 05:30 pm

### Run 2

Friday  
02 February 2024  
9:00 am - 05:30 pm

## Location

To be informed upon confirmation

## Course Fees

(Inclusive of GST)

### Original Price

SGD 1026

### After SSG Subsidies

SC < 40yo & SPRs  
SGD 307.80

SC ≥ 40yo & Enhanced  
training support for SMEs

SGD 117.80

This workshop aims to equip healthcare innovators, including healthcare professionals, researchers, engineers and budding healthcare entrepreneurs with knowledge relating to the product development competency (intermediate) under the [Health and Medtech Innovation Skills and Competencies whitepaper](#).

This workshop will provide learners with perspectives encompassing the development of a health and medtech product, de-risking innovation and implementing quality management systems.

By the end of the workshop, health and medtech innovators will be able to identify the different milestones to demonstrate medical device readiness from concept to a user-ready final device, apply a framework for risk assessment for early stage projects and apply best practices towards implementing initial quality management systems in early stage projects.

## How to register?

Simply scan the QR Code and search for the course name as a self-sponsored participant! Refer to our registration guide here: [https://bit.ly/SB\\_RegistrationGuide](https://bit.ly/SB_RegistrationGuide)



or click [here](#).

If your company is sponsoring your participation upfront, please email us at [sbenquiry@hq.a-star.edu.sg](mailto:sbenquiry@hq.a-star.edu.sg) for registration instructions.

# COURSE AGENDA

An Introduction to Product Development and Quality Management Systems for Health and MedTech Innovations

## Learning Outcomes:

**By the end of this module, you should be able to**

- Analyse and articulate key design requirement specifications
- Assess technology to design and develop functional proof-of-concept prototypes, and determine what tests are required to de-risk the project
- Respond and manage potential product development risks, develop a mitigation plan and manage risks
- Collaborates with different internal stakeholders (e.g., engineers and scientists) to define product requirements, develop prototype and validate results
- Understands the required regulatory and quality requirements, i.e., guidance documents, standards for different kinds of innovation projects; Able to design and carry out necessary tests and documentation.
- Apply basic quality management standards to ensure adherence to ISO standards in the early product development stages

## Programme Highlights:

0900H - 0910H	Introduction
0910H - 0940H	Overview and Structure of Quality Management System
0940H - 1000H	Product Development Process & Design Controls: Concept Phase and D&P Phase
1000H - 1015H	Tea Break
1015H - 1100H	Product Development Process & Design Controls: D&D and V&V Phases
1100H - 1200H	Requirement Specifications: User Needs
1200H - 1230H	Risk Management: Hazard Analysis
1230H - 1330H	Lunch
1330H - 1515H	Hazard Analysis and Risk Controls Exercise on Ventilator [Case study]
1515H - 1530H	Coffee Break
1530H - 1600H	Risk Management: Product DFMEA
	Requirement Specifications: Design Input
1600H - 1630H	Experiences in early stage projects - common pitfalls, mistakes, pushing for dev
1630H - 1700H	timeline vs doing the documentation
	Implementing a QMS post-spin-off
1700H - 1730H	Q&A and Discussion

# UPCOMING WORKSHOPS

Our courses cover a wide range of topics in the HealthTech and MedTech industry and are designed for professionals looking to up-skill or re-skill themselves in the healthcare innovation space.

	Date
<b>Biodesign Bootcamp: Deep Dive into HealthTech Innovation with an End in Mind</b>	Run 1: 31 July - 04 August 2023 Run 2: 26 February - 01 March 2024
<b>Design Thinking for Healthcare Innovation: An Overview</b>	Run 1: 11 September 2023 Run 2: 15 January 2024
<b>An Introduction to Product Development and Quality Management Systems for Health and MedTech Innovations</b>	Run 1: 02 October 2023 Run 2: 02 February 2024
<b>Business Model Innovation for Healthcare Innovations</b>	Run 1: 01 - 03 November 2023
<b>Design Thinking for Healthcare Innovation: Focusing on Identifying and Inventing for the Unmet Need</b>	Run 1: 14 - 15 November 2023 Run 2: 25 - 26 March 2024
<b>Business Implementation for Health and MedTech: Project to Market Overview</b>	Run 1: 04 - 05 December 2023
<b>Health and MedTech Project Management +</b>	Run 1: 08 January 2024

## Contact Us For More Information :

-  [www.a-star.edu.sg/sb](http://www.a-star.edu.sg/sb)
-  [SBenquiry@hq.a-star.edu.sg](mailto:SBenquiry@hq.a-star.edu.sg)



or click [here](#).