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**LOCATION:** TOPRA OFFICE AND ONLINE

**Module Leader(s):** Dr Helen Erwood and Jason Collins

**Date:** 8<sup>th</sup> – 10<sup>th</sup> September 2025

**DAY ONE: Monday 8<sup>th</sup> September 2025**

Time	Activity	Speaker
13.00 - 13.30	Registration and coffee	
13.30 – 14.00	<b>Housekeeping and Introduction</b> Overview of the regulatory environment MDR, IVDR and Notified Body changes	Helen Erwood and Jason Collins ESPL Regulatory
14.00 – 14.45	<b>Lecture 1: Principles of the Design and Development of Medical Devices:</b> <ul style="list-style-type: none"><li>An overview and introduction to the design and development “toolkit”.</li><li>The importance of ISO standards in device development (ISO13485 / ISO14971 / ISO10993 etc.)</li></ul>	Helen Erwood ESPL Regulatory
14.45 - 15.15	<b>Refreshment Break</b>	
15.15 -16.15	<b>Case Study 1:</b> <b>The Design and Development Target</b> <ul style="list-style-type: none"><li>How the target product profile (TPP) fits into the design programme</li><li>Relevance of the Essential Requirements checklist to design and development of a new device</li></ul>	Jason Collins ESPL Regulatory
16.15 - 17.15	<b>Lecture 2: Risk Assessment: what is it?</b> <ul style="list-style-type: none"><li>A practical look at how this fits into device design and development</li></ul>	Helen Erwood ESPL Regulatory

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**DAY TWO: Date: Tuesday 9<sup>th</sup> September 2025**

<b>Time</b>	<b>Activity</b>	<b>Speaker</b>
09.00 – 09.05	<b>Review of Day 1</b>	Jason Collins ESPL Regulatory
09.05 - 09.45	<b>Lecture 3:</b> <b>The influence of materials in Medical Device Design</b>	Helen Erwood / Laura Hall Jason Collins
09.45 – 10.30	<b>Lecture 4:</b> <b>Design Planning and Design Control</b> <ul style="list-style-type: none"> <li>• INPUTS and OUTPUTS</li> </ul> When should DESIGN CONTROL take effect?	James Pink RegNav
10.30 – 11.00	<b>Refreshment break</b>	
11.00 – 11.45	<b>Lecture 5: Rapid Prototyping – the Challenges of Designing and Testing Prototypes</b>	James Pink RegNav
11.45 – 12.30	<b>Interactive session:</b> <b>Packaging for Medical Devices</b> <ul style="list-style-type: none"> <li>• Factors to consider in packaging design</li> </ul>	Helen Erwood ESPL Regulatory
12.30 – 13.30	<b>Lunch</b>	
13.30 – 14.30	<b>Interactive session:</b> <b>Software, AI and Machine learning</b> a different development approach and a look at machine learning	Chris Erwood ESPL Consulting
14.30 - 15.00	<b>Refreshment Break</b>	
15.00 - 15.45	<b>Lecture 6: Human factors and usability testing during development</b> <ul style="list-style-type: none"> <li>• Human factors studies</li> </ul>	Greg Thay Thay Medical Limited
15.45 – 16.30	<b>Interactive Session:</b> <b>Statistical Considerations in Medical Device Clinical Investigations</b>	Andrew Mills MMS Holdings
16.30 – 17.15	<b>Case study 2:</b> Inputs, Outputs and Design Control	Greg Thay Helen Erwood



### DAY THREE

**Date: Wednesday 10<sup>th</sup> September 2025**

09.00 – 09.30	<b>Introduction/overview of the day: Review of case study 2</b>	Helen Erwood ESPL Regulatory
09.30 - 10.15	<b>Lecture 7: Sterilisation of Medical Devices:</b> The trials and tribulations of trying to sterilise the unsterilisable!	Helen Erwood ESPL Consulting
10.15 – 11.00	<b>Lecture 8: Biological Assessments Relevant to Medical Devices</b>	Stuart Freeman Farino Consulting
11.00 – 11.30	<b>Refreshment break</b>	
11.30 – 12.00	<b>Lecture 9: Software as a medical device</b> Regulatory reporting	Marta Monteiro Complear Health
12.00 – 12.30	<b>Lecture 10: Diverging approaches to MD requirements – EEA and UK</b>	Laura Hall ESPL Regulatory
12.30 – 13.30	<b>LUNCH</b>	
13.30 – 14.15	<b>Lecture 11: Certification: Documenting data to Support New Device files</b> <ul style="list-style-type: none"> <li>Reporting design and development data for regulatory assessment.</li> </ul>	Jason Collins ESPL Regulatory
14.15 – 15.00	<b>Lecture 12: Notified Body Expectations</b> <ul style="list-style-type: none"> <li>Common Issues with design and development data</li> </ul>	Theresa Jeary BSi
15.00 – 15.30	<b>Refreshment Break</b>	

Module 14:

Design Development and Certification of Medical Devices

08 - 10 September 2025



15.30 – 16.15

**Lecture 13: Post-marketing Design/Development Activities**

Helen Erwood / Jason Collins  
ESPL Regulatory

- Clinical follow-up
- Life Cycle Management of device design: optimisation after launch

16.15 – 17.00

**Case Study 3:** Post-Marketing Design Changes Including Packaging and Sterilisation

Helen Erwood / Jason Collins  
ESPL Regulatory

17.00

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