Module 20: Regulation of Electrical, Electronic and Software Devices



Date: 7 – 9 June 2023

LOCATION: TOPRA OFFICE, LONDON, UK

Module Leader(s): Richard Vincins

Day 1: Wednesday 7th June 2023

Time	Activity	Speaker
13.00	Registration	
13.30 -14.30	Welcome & Introduction to the Module Lecture 1: Definition of electronic devices and "active" devices, hardware components, software, accessories, and replaceable parts	Richard Vincins, Module Leader
14.30 - 15.00	Lecture 2: Design controls; critical components	Richard Vincins, Oriel STAT A MATRIX
15.00 - 15.30	Afternoon break	
15.30 - 16.00	Lecture 3: Manufacturing aspects; storage, handling, use, and environment	Richard Vincins, Oriel STAT A MATRIX
16.00 - 16.45	Lecture 4: IEC 60601-1 related to safety, risk, and usability including IEC 61010-1 for IVD instruments; 3.0 to 3.1 edition changes	Richard Vincins, Oriel STAT A MATRIX
16.45 - 17.30	Lecture 5: IEC 60601-1-2 for EMD; review of country compliance requirements	Richard Vincins, Oriel STAT A MATRIX
17.30 - 18.30	Workshop: Definition of electrical and electronic devices	



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Day 2: Thursday 8th June 2023

Time	Activity	Speaker
09.00 - 10.00	Lecture 6: Other IEC & ISO standards (home use, usability); Collateral and Particular standards	Richard Vincins, Oriel STAT A MATRIX
10.00 - 11.00	Lecture 7: Safety and essential performance; risk management including normal and fault conditions	Richard Vincins, Oriel STAT A MATRIX
11.00 - 11.30	Morning break	
11.30 - 12.30	Lecture 8: Marking, safety guards, labelling, instructions; batteries related to safety	Richard Vincins, Oriel STAT A MATRIX
12.30 - 13.30	Lunch	
13.30 - 14.30	Workshop: Intended Use, Hazards, and Harms with Electrical Devices	
14.30 - 15.30	Lecture 9: Usability and human factors related to IEC 62366; combination products	Richard Vincins, Oriel STAT A MATRIX
15.30 - 17.30	Lecture 10: Software Development Life Cycle (SDLC) and phases of software development; PEMS	Richard Vincins, Oriel STAT A MATRIX



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Day 3: Friday 9th June 2023

09.00 - 10.00	Lecture 11: Software as a Medical Device (SaMD)	David Grainger, MHRA
10.00 - 10.15	Morning break	
10.15 - 11.15	Lecture 12: Linking software to electromechanical devices; operation and validation	Richard Vincins, Oriel STAT A MATRIX
11.15 - 12.15	Lecture 13: IEC 62304 and FDA Guidance for Software in Submissions; comparison and contrast	Richard Vincins, Oriel STAT A MATRIX
12.15 - 13.15	Lunch	
13.15 - 14.15	Lecture 14: Risk management, cybersecurity, connectivity; SOUP and configuration management	Miguel Amador, EIT Health InnoStars
14.15 - 14.45	Afternoon break	
14.45 - 15.45	Workshop: Software Applications and Testing Requirements	
15.45 - 16.00	Conclusion and summary	Richard Vincins, Oriel STAT A MATRIX