



Course Programme

Medical Device Usability

Instructor: Dr Nick Bradley, BERGO UK	
Day 1	
08.30 – 09.00	<i>Coffee and registration</i>
09.00 – 09.15	<i>Introductions, Course Overview and Objectives</i>
09.15 – 12.30	1. Introduction to Usability Engineering <ul style="list-style-type: none">• What is Meant by Usability?• Legal Framework for Manufacturers• Overview of Usability Engineering Process in IEC 62366-1:2015 <i>Discussion: Experiences and Challenges</i>
12.30 – 13.30	<i>Lunch</i>
13.30 – 16.15	2. Usability Techniques <ul style="list-style-type: none">• Design Guidance in ANSI/AAMI HE75• User Research Techniques• User Interface Design Techniques <i>Workshop: Task Analysis</i>
16.15 – 16.30	Summary of Day
Day 2	
08.30 – 09.00	<i>Coffee</i>
09.00 – 12.30	3. Managing the Risk of Use Error <ul style="list-style-type: none">• Why do Use Errors occur?• Case Studies Involving Use Error• Techniques to Manage Use Error <i>Exercise: Error Types; Workshop: Use Error Risk Analysis</i>
12.30 – 13.30	<i>Lunch</i>
13.30 – 15.15	4. Usability Evaluation <ul style="list-style-type: none">• Formative Evaluations• Summative Evaluations <i>Exercise: Cognitive Walkthrough</i>
15.30 – 16.15	5. Usability Documentation and Integration <ul style="list-style-type: none">• The Usability Engineering File• The HFE/UE Report in the US• Developing and Implementing a Usability Engineering Process <i>Discussion: Next steps and challenges</i>
16.15 – 16.30	Course Summary and Conclusions