



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?• Overview of Usability Engineering Process (e.g. Usability Specification, Verification & Validation)• Legal Framework for Manufacturers <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>Workshop: Use-Error Risk Analysis</i>
12.30 – 13.30	<i>Lunch</i>
13.30 – 14.30	4. Usability Testing and Evaluation <ul style="list-style-type: none">• Formative Usability Testing• Summative Usability Validation Testing• Expert Evaluation Techniques <i>Exercise: Cognitive Walkthrough</i>
14.45 – 16.00	5. Usability Integration and Documentation <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>Exercise: Preparing a Usability Engineering File; Discussion</i>
16.00 – 16.15	Course Summary and Conclusions