### IET Safety Critical Systems Course Programme: November 1-2, 2023

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<th>Session Times</th>
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| 09:00 – 09:30 | Review of E-Learning Course & Q & As  
*This session provides a link from the E-Learning course to the online course.*  
Ron Bell, Functional Safety Specialist | 09:00 - 10:00 | Hardware Reliability: Data Sources and Modelling  
Dave Green, Principal Consultant RPS | Consulting UK & Ireland |
| Session 1     | 09:40 – 10:50 | Session 7     |                |
|               | Some key issues in achieving Safety Integrity  
Ron Bell, Functional Safety Specialist | 10:10 - 11:10 | IEC 61508: Software Requirements  
Dewi Daniels, Director, Software Safety Limited |
| Session 2     | 11:10 – 12:10 | Session 8     |                |
|               | Walkthrough example from Hazard & Risk Analysis to final design: Part 1  
Dave Green, Principal Consultant RPS | 11:30 - 12:30 | Complex Semiconductors & Functional Safety  
Colin McIntosh, Senior Manager, SW Systems Design Engineering, Analog Devices |
| Session 3     | 12:10 – 13:00 | Lunch         |                |
|               | Lunch          | 12:30 – 13:30 |                |
| 13:00 -14:00  | Walkthrough example from Hazard & Risk Analysis to final design: Part 2  
Chantal Sealey, Senior Consultant, ERM | 13:30 – 14:30 | Cyber Security and Safety  
Rhodri Morgan, Technical Authority, Cairn Risk |
| Session 4     |                | Session 10    |                |
| 14.10 -15:10  | Operation & Maintenance  
Damian Marsden, Principal Consultant, Engineering Safety Consultants Ltd | 14:40 – 15:40 | Artificial Intelligence: The Challenges  
Riccardo Mariani, VP, Industry Safety, NVIDIA |
| Session 5     |                | Session 11    |                |
| 15:30 – 17:30 | Case Studies Including Interactive Examples  
• Case study 1: BP Texas City incident  
• Case study 2: CAPECO incident  
Dave Green, Principal Consultant RPS | 15:50 – 16:30 | End of Course Open session Q & A  
Chair: Ron Bell, Functional Safety Specialist |
| Session 6     |                | Session 12    |                |

**Note:** Part 1 of the course is to be undertaken through the IET Academy. Participants to undergo full IEC E-Learning course on the Foundations of Functional Safety.