

Functional Safety: Instrumented Systems

NEWCASTLE CHAMBERS OF ENGINEERING

**Solutions for the management
of Instrumented Safety Systems**



A Community of Practice

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ABOUT US

Newcastle Chambers of Engineering is a group of engineers operating a community of practice. We are professional engineers with a knowledge base and a pragmatic approach that comes with experience.

Support is provided for plant and process operators, project management, asset management, and technical authorities. Studies are undertaken, and assistance given with problem solving and safety management.

OUR SERVICES

Consultancy

- We provide training in the design, implementation and maintenance of safety critical control systems.
- Technical auditing, verification and validation in compliance with IEC 61508 and IEC 61511.
- Chair and administrate Hazard Identification studies (HAZID).
- Chair formal Safety Integrity Level (SIL) studies to determine the required specification for control systems.
- Chair Layers of Protection Analyses (LOPA) studies to determine the safety requirements for control systems.
- Functional safety assessments.
- Functional safety verification.
- Risk reduction exercises.
- Analyse systems configurations to determine if the safety specification has been achieved.
- Alarm Management Studies to EEMUA 191. Preventing alarm overload for the operator and a detailed alarm response manual for the process.

An Engineering Community of Practice

Our Chambers of Engineering brings together professional engineers with experience in their particular disciplines and fields. The chambers provide a unified approach, professional standards and procedures, of a common community of practice. Engineers give mutual support to each other, sharing knowledge within the chamber and with the clients.

Engineering Design

Newcastle Chambers of Engineering provide an engineering service of Process and plant control systems design, and management of change in support of HSE compliance and legislative requirements.

We provide engineering support for the complete systems lifecycle of feasibility studies, feed study, operational and functionality studies, system design, performance testing and maintenance documentation.

Technical Training

We provide training workshops and short seminars on a number of different topics including the application of IEC 61508 and IEC 61511, the management of change, and the application of Alarm Management.

Our Aim

To provide a comprehensive service differentiated from others in terms of.

- Consultancy after having years of recent industrial experience on project teams.
- Impartial and independent advice with a high quality of service.
- To demonstrate compliance with safety and environmental requirements supporting COMAH and PFEER legislation.
- Provide a good audit trail of design methodology and documentation.
- Provide contract fidelity and meet deadlines.
- Exclusively represent the interests of our clients.
- A reliable service giving long-term benefit to our client is one of our criteria.