

Functional Safety: the Next Edition of IEC 61511



ENGINEERS
AUSTRALIA

Speaker:

Mirek Generowicz, MIEAust CPEng, Engineering Manager, I&E Systems

Hosted by:

Joint Electrical and Electronic Papers (JEEP)

DATE

Wednesday 8 July 2015

TIME

5.30pm for a 5.45pm start

*Light refreshments will be served
after the presentation*

VENUE

Auditorium
Engineers Australia
712 Murray Street
West Perth

TICKETS (incl. GST)

EA, IET, IICA Members &
Students: Free
Non-members: \$30.00

**REGISTRATIONS CLOSE
COB Tuesday 7 July 2015**

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Representing the ITEE Panel



**This event is eligible for
1.5 CPD hours**

The functional safety standard IEC 61511 provides a framework for managing instrumented safety systems in the process sector with the overall objective to ensure that the safety systems reliably deliver sufficient risk reduction to reduce risk to acceptable levels.

IEC 61511 has remained essentially unchanged since 1996 when it was first released in the USA in the form ISA S84. A revised edition has now been prepared and is expected to be released by the end of 2015. The revision is still subject to discussion and debate but there is basic agreement on the main changes.

This paper outlines:

- A brief history of the standard
- An overview of how the standard works to achieve reliable risk reduction
- The changes that are likely to be adopted
- Why those changes are necessary.

As owners, end users, designers, installers, operators or maintainers, we all have a duty of care in managing hazards. Due diligence means that we have to demonstrate a reasonable level of compliance to appropriate standards and practices.

Over the past 20 years the ISA S84 / IEC 61511 standard has been applied widely and shown to be practicable. It is unarguably the most appropriate standard to apply for instrumented safety systems in the process sector. The changes are intended to make the standard simpler and should improve the level of compliance that can be readily achieved.

Regulators now expect users to demonstrate a reasonable level of compliance to the standard. Owners, end users and EPC/EPCM contractors will need to improve and to formalise the way they execute engineering activities in order to comply with the standard requirements.

ABOUT THE SPEAKER

Mirek Generowicz is the Engineering Manager at I&E Systems, an engineering consultancy that specialises in systems engineering for control and safeguarding systems in the process industry sector. He started his career as an electrical engineer in 1981 and has been working with functional safety systems in various forms since 1986. Mirek now specialises in leading functional safety assessments.

Mirek is accredited by TÜV Rheinland as a Functional Safety Senior Expert and presents training courses both in functional safety engineering and in functional safety management. When not working for a living Mirek enjoys flying ultralight aircraft – which leads to a keen interest in risk management and safety.

