NEW

MANAGING HAZARDS – FIRES, EXPLOSIONS, HAZLOC AND ATEX

3 CPD POINTS

SAIChE 465



Presented By: John Broli of Engineers for Africa (E4A)

The main objective is to provide engineers with the fundamentals of risk management in hazardous environments, and hazards avoidance in design and practice and to thereby limit the risk of failure.
Economic benefits are achieved with the risk avoidance and mitigation strategies as well as directions provided on good engineering practice in hazardous environments.

This important Course is first introduced through a wide ranging and thorough overview of the 'Managing of HazLoc and ATEX Requirements'. The Course is based on extensive prior practical experience by the presenter, as well as a useful review of reference material providing sound information and presentations for these stated subjects.
This Course first addresses the ATEX and HazLoc Systems and the related control and management procedures. Extended details of hazardous ZONES and the implications of the equipment design for compliance, such as junction box design requirements for each ZONE category, is thoroughly presented.

A series of excellent sub-courses on a range of hazardous management topics such as fire and explosion avoidance or mitigation are then presented. These sub-courses cover extensive explanations on the variables required for the hazards to initiate, as well as important concepts such as the lower and upper explosion limits with explosions, and all conditions under which the hazards can propagate. The sub-courses also cover the main mechanisms, chemistry behind these catastrophes and actual details of case studies covering five explosions and five large fires, thus providing a full overview of recorded causes and actual prevention and corrective actions adopted.

There are also some sub-courses added such as thorough analyses of systems and the critical variables associated with hazardous environments - to further broaden the course and provide a summary of the highest risks of failures in Engineering. Installation of VFDs/VSDs and the positioning arrangements, either in remote positions (such as far-distanced Motor Control Centres), or positioning arrangements at the relevant motors (such as on adjacent platforms) are explained.

The special control panels at the motors and cable arrangements are also presented.
The Course also addresses the OSH Act and the related Regulations and the impact on engineering design approaches, as well as the links to key and leading Hazardous Engineering Standards such as SANS 347 (Pressure Vessels Criteria) and SANS 310 (Storage of Hazardous Chemicals).
The total package is thus a complete and thorough overview of Top Risks of Failure, and design for mitigation of Hazardous Locations and Hazardous Engineering.

Who should attend?

This Course is open for attendance by all Engineering skill levels and all Professional Engineering, Technologists and Technicians Categories as under the ECSA registrations.

Requirements?

All E4A courses are live, on-line and extend over two days.

Quantity discounts are available for group attendances or multiple bookings paid in advance.

All courses include:
a. Interesting pre-reading material is sent to attendees normally two days prior to the start.
b. Course materials are emailed ahead to you for the course, and your personal library.
c. ZOOM links are sent to you 2 days prior to the course start date.
d. The Course framework and time-plan is sent ahead to attendees as an Excel Document enabling easy tracking.
e. Workshops, which include case studies and worked examples, are interspersed with tea and lunch breaks and all materials are sent ahead to attendees for these exercises.
f. A Certificate of Attendance, with CPD points reflected, is provided at the end of the event.

There is a full scope of reading material that extends the Course to enable the award of 3 CPD points, and we will provide those details and discuss with attendees how these details can be addressed at the time of your registration for the Course. The full live on-line attendance remains at 2 days.

Register?

T: +27 (0) 11 805 5947
F: +27 (0) 11 805 5971
E: cheryl-lee@saice.org.za
W: www.saice.org.za