



The Psychology of Industrial Safety

info@rydermarsh.co.uk



A One-day Workshop by Ryder Marsh Ltd

Whilst Human Error is something that is inevitable it is not something beyond our control. Systems can be put in place to minimise its impact – and make its occurrence less likely. With specific reference to Process Safety this workshop will consider a systematic approach to controlling Human Error and provide an understanding of the human capabilities and limitations at work.

Following the events of the Texas City Disaster recent industry attention has focused on the challenge of how to more proactively manage Human Factors. This is based on several facts:

- 1) The catalogue of incidents and accidents relating to Human Factors continues to grow and this is all despite our apparent best efforts.
- 2) The cost of human failure is very real once realised, but the cost potential is not always fully considered prior to an even occurring (BP currently predicts a bill in excess of 1.6 billion dollars.)
- 3) Traditional approaches to managing the risk that human failure can represent are often only considered during the design of processes and often not managed continually or proactively, hence increasing the risk of potential critical failure.

This workshop will provide an insight into how Human Factors can be managed more proactively, by challenging traditional approaches to Human Factors; to question the impact of safety culture; and to consider what alternatives are available to actively manage human error.

Ryder Marsh Ltd is internationally one of the leading consultancies in the development of cultural and behavioural aspects of safety management.

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PROGRAMME

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- 10:00 **Coffee and Registration**
- 10:30 **Introduction**
- 10:40 **Session 1: Overview of Human Factors in Process Safety**
This session will provide an overview of the role of human factors in safety, considering its role in personal safety in comparison with its role in process safety. How human factors shape performance, behaviour and human reliability will be discussed in relation to the nature of the task demands and the potential associated hazards.
- 11:40 **Session 2: Human Reliability in BP Texas City**
The participants will complete an exercise to identify which human factors were involved in the loss of safety. This will involve the systematic identification of human error or rule violations and the associated performance influencing factors. Their relevance to process and personal safety will be discussed.
- 12.30 **Lunch**
- 13.30 **Session 3: Improving Human Performance and Reliability**
The relationship between safety culture and human factors will be explored and considered against the prevention, reduction and mitigation of human error and rule violations. Systematic human factors techniques which are traditionally used in risk assessment to predict and prevent human error will be discussed alongside safety leadership and behavioural safety approaches as approaches that can be used to maximise human reliability.
- 14.45 **Session 4: Improving Human Performance and Reliability**
The participants will complete an exercise to use the human factors identified in session 2 to systematically identify potential human error/rule violation management and performance improvement techniques. The applicability of these potential improvements in relation to personal and process safety will be discussed.
- 16.00 **Summary & Discussion**
- 16.30 **Close of workshop**

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Please complete this registration form and return to:
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DELEGATE DETAILS

Title:	First Name:	Surname:
Job Title:		
Company:		
Address:		
Postcode:		
Tel:	Fax:	
E-mail:		
Booked by:		

PAYMENT DETAILS

Cost per delegate:

- CIA Members: £290 (+17.5% VAT £50.75) = £340.75
 Non-members: £350 (+17.5% VAT £61.25) = £411.25

- Cheque** Please make payable to Chemical Industries Association
- BACS Transfer** NatWest Bank Plc, Piccadilly & New Bond St Branch, 63 Piccadilly, London W1J 0AJ, Sort Code: 50-41-01; Ac No 23114193; Vat No GB 235 5606 66; Please forward a remittance advice to our Accounts Dept quoting job ref: 80319
- Purchase Order** An invoice cannot be issued without a PO number _____
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Please note: Registrations must be accompanied by payment or a purchase order number. Cancellations received up to and including 14 days before the event will incur an administration fee of 20% of the cost per delegate + Vat. Less than 14 days before the event will incur a 100% cancellation fee. A substitute delegate can be accepted at any time.

Please copy this form for additional delegates and return the completed registration form(s) to reserve your place

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