



PROFIBUS Association South East Asia



March 2005

Technical Talk

PROFIsafe Hi Tea

**PROFIsafe, Safety Integrity and Fail-safe
Design for Process Automation**

**By David Ong
PROFIBUS Association South East Asia**

**sponsored by
Excel Marco Industrial Systems Pte Ltd**

**Thursday, 31st of March 2005
3.00 PM at CPTC**

Supported by:



REGISTRATION

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PROFIBUS Association South East Asia



INTRODUCTION

PROFIBUS, the world market leader in fieldbus systems, and standardized in IEC 61158 and IEC 61784, is the very first in merging standard automation and safety automation in one technology, running on the same bus, using the same communication mechanisms, and thus providing highest efficiency to the user.

This solution is called PROFIsafe.

With the advent of internationally accepted IEC 61508/61511 standards, safety integrity concepts and implementing safety instrumented system have become more consistent and less ambiguous as a whole. However, there are various key concepts and design principles that need to be better understood before the benefits of these standards can be fully harnessed. Having a false sense of safety may be even more detrimental than knowing the potential risk involved.

Measuring and comparing safety requires a good understanding of SIL (Safety Integrity Level) and failure probability. Just as in servicing your car increasing the level of safety, SIS (Safety Instrumented Systems) requires regular proof testing. The frequency of proof testing is proportional to the safety availability. Safety availability for fieldbus technology shall also be examined for its place in SIS and its future.

TECHNICAL TALK DETAILS

- The **PROFIBUS and PROFIsafe**
- **Safety Integrity and Fail-safe Design for Process Automation**

SPEAKER

David Ong, is currently the Managing Director of Excel Marco, the premier solutions provider for safety consultation and control systems. He is a CFSE (Certified Functional Safety Expert) and also a member of the advisory board of CFSE Governance Board. During the course of his career, he has executed many major projects in the Oil & Gas industry both onshore and offshore on Process Automation Safety & Control. Having involved with many major Oil companies such as Esso, Shell, Sinopec, PetroChina, Total, Mobil, Unocal and so on, he is well versed with the corporate standards and practices of these companies.

DETAILS

Title:	PROFIsafe Hi Tea PROFIsafe and Safety Integrity and Fail-safe Design for Process Automation
Venue:	Chemical Process Technology Centre, 81 Jurong Island Highway, Singapore 627837
Date/time:	Thursday, 31 st of March 2005, 3.00 pm
Fee:	ICS and RPA members free S\$10 for non-members
Max. No.:	100 (Seats are limited. Please register today.) Tea Reception will be served.

