

### **KOEN LEEKENS, B.Sc., M.Sc.** **Managing Director exida Asia Pacific Pte Ltd** **Certified Functional Safety Expert**

CFSE ID: CFSE 080611 019 ([www.cfse.org](http://www.cfse.org))



### **Fields of Competence**

#### Standards

IEC 61508: Functional Safety of E/E/PES Safety-related systems

IEC 61511: Functional Safety for the Process Industry Sector

IEC 62061: Functional Safety for Machinery

#### Safety Lifecycle

Certifying Assessment Auditor and Reviewer  
Functional Safety Management Implementation  
Functional Safety and Reliability Assessment  
SIL Target Selection Lead  
Failure Modes and Effect Analysis  
Safety Requirements Specification Development  
Conceptual and Detailed SIF Design  
SIL Verification Calculations  
CFSE (Certified Functional Safety Expert) Instructor

#### Control and Safety Systems

Project Management  
Requirements Development  
Hardware Design  
Software Design  
Validation  
Commissioning  
Proof Testing

### **Experience Summary**

Mr. Koen Leekens is an accomplished Certified Functional Safety Expert with 18+ years' experience in Functional Safety the Process and Automation Industry.

This experience covers working with and for blue-chip operating companies (EXXON, SHELL, CHEVRON, TOTAL, BP) major multinational engineering contractors (FLUOR, FOSTER WHEELER, JACOBS, HYUNDAI, DAIWOO) and automation system suppliers (EMERSON, HONEYWELL, INVENSYS)

Over 18 years, Mr. Koen Leekens has developed and implemented numerous functional safety training programs and seminars worldwide.

Project related experience: Mr. Koen Leekens successfully led the global IEC 61508/ IEC 61511 implementation of safety lifecycle engineering processes including Hardware and Software Engineering in a Fortune top 100 company, achieving independent 3<sup>rd</sup> party certification by TUEV Nord.

### **Recent IEC Assessments and Certification Projects**

- Land Transport Authority Singapore: SIL Manager for ER248A Upgrading of Woodsville Interchange (Systems)
- Emerson Singapore: SIL3 Consultancy and Certification of Local Control Panel
- Modec Singapore: BP FPSO IEC 61511 Functional Safety Assessment
- Flowserve Singapore: SIL Certification of Flow Controller
- HCL India: IEC 61508 Consultancy and Certification of several HW/SW Design Processes
- Rotex India: SIL3 Consultancy and Certification of Electric Actuators and various Solenoids
- Samjin Korea: SIL3 Consultancy and Certification of Butterfly Valves
- Unicomm Korea: SIL3 Certification of several Valve families
- Mars Taiwan: SIL3 Certification of Ball Valves
- Emerson China: SIL3 Certification of Regulator family

### **Recent Publications, Training and Seminars**

- 2010 Certified Functional Safety Expert Trainings:
  - Singapore (3x), India (2x), Jakarta (2x), Hong Kong (2x)
- Presenter: Safety Forum Seoul
  - Novel features of the 2nd Ed. of IEC 61508:2010
- Keynote speaker OGP Shanghai:
  - The First Combined Certification for Functional Safety and Functional Security
  - Practical SIL Target Selection and Verification
- Keynote Speaker International Safety Seminar Chennai
  - The Benefits of the IEC 61508/61511 Safety Lifecycle
- Keynote Speaker IEC 62016 Safety Seminar Singapore
  - The IEC 62061 in relation to the IEC 61508



## Professional Profile

### Employment Summary

Since 2009: exida Asia Pacific Pte Ltd  
Managing Director – Senior Safety Consultant

2003 – 2009: Emerson Process Management  
Global Director – Safety Instrumented Systems

1996 – 2003: HIMA  
Global Key Account/Project Manager

1995 – 1996: Interconnection Systems  
Technical Manager

1993 – 1995: Omron Electronics  
Project Engineer

1992 – 1993: Egemin Engineering  
Project Engineer

### Credentials

Since 2009: CFSE Governance Board  
Authorized CFSE Course Instructor

Since 2004: CFSE Governance Board  
Certified Functional Safety Expert

Since 2003: IEC 61508 Association  
Member

Since 2002: International Society of Automation  
Member

Since 1993: Flamish Engineering Chamber (VIK)  
Member of the board in 1993 – currently member

1980 – 1992: University of Hasselt (Belgium)  
Master of Science in Electronics and Mechanical Engineering

1987 – 1990: University of Hasselt (Belgium)  
Bachelor of Science in Electronics and Mechanical Engineering

### Languages

- Dutch : primary
- English : fluent
- German: fluent
- French : fluent

### About exida

Established in 2000 by the world's top safety, security, and reliability experts from TUEV, Equipment Manufacturers and End Users, exida is the leading global supplier engineering tools, consultancy and certification services, for Functional Safety, Cyber Security, Alarm Management and Reliability.

exida has worldwide successfully supported over 2000 Equipment Manufacturers, Engineering Companies and End Users in the Process Industry, Factory Automation, (Nuclear) Power Industry and Automotive Industry to meet IEC 61508/ IEC 61511/ IEC 62061/ ISO26262 requirements.

For more information – kindly contact:

[AsiaPacific@exida.com](mailto:AsiaPacific@exida.com)