SIEMENS



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CERTIFICATE

Lee Tse Twan

Has successfully completed the Functional Safety Certification Program requirements for

Siemens Functional Safety Professional

In accordance with IEC 61511:2003 IEC 61508:2010

Date issued:

Ginte

2015-06-17

ID number:

SFSP1506159

Field:

Process industry

Subject:

Safety Instrumented Systems

G. Greil Certifier

Trainer

W. Henke

CURRICULUM

Functional safety management:

Life cycle concept, verification, validation, assessments, modifications

Hazard & Risk Analysis:

Hazard identification, hazard analysis, risk reduction, safety function definition using LOPA, risk graph, SRS, Cause & Effect

Hardware design:

Demand mode, continuous mode, voting, hardware fault tolerance, safe failure fraction, type A/B, architectural constraints,

Hardware reliability:

PFD, PFH, proof testing, simplified equations, common cause, MTTR, proven in use

Software design:

Embedded software, application software, utility software, limited variability languages, full variability languages, software architecture, software lifecycle, FAT

Operation and maintenance:

Installation and commissioning, operation, maintenance and repair, modification, decommissioning