

10% Discount for Early Bird !!*

CFSE / CFSP Training & Certification

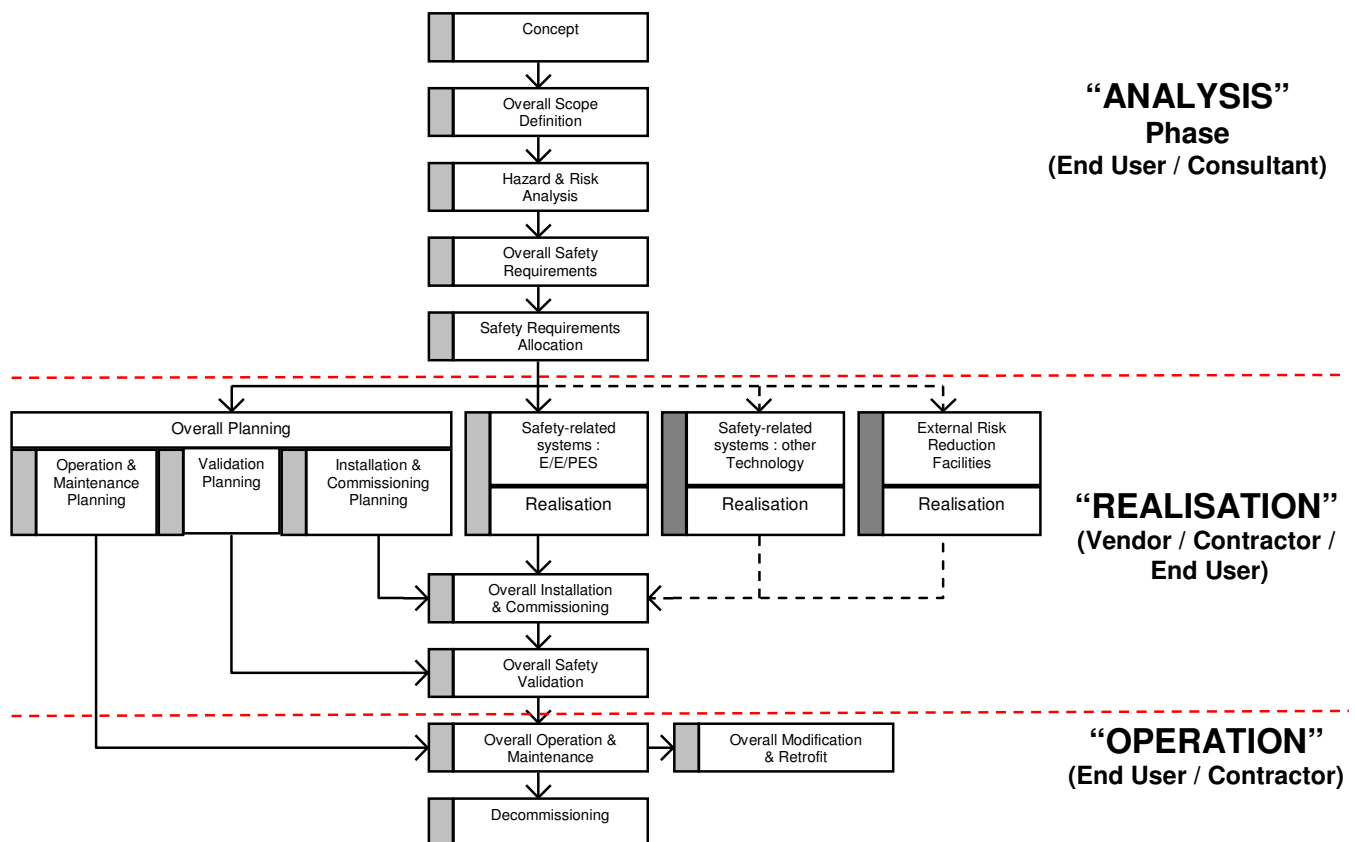


Training Approved by
CFSE Governance Board

The Certified Functional Safety Expert (CSFE) and the Certified Functional Safety Professional (CFSP) are global programs that apply to the field of functional safety. The knowledge required for the CFSE/CFSP programs are based on current industry accepted practices and standards.

CFSE & CFSP programs aim to ensure that personnel performing SIS lifecycle activities are competent and are of national and international standards of performance. Standards require proof of qualification to ensure safety knowledge and skills are up to date. Some companies may require that personnel overseeing and executing the safety projects are CFSP holders.

Safety Life Cycle Model – IEC61508



* Terms & Conditions Apply

CFSE/CFSP Training Course

Since safety is such an important issue in the process and machine industries, the Governance Board treats the CFSE/CFSP applications and examinations very seriously. As a result, the certificate examinations are extremely rigorous and often demand significant preparation in order to achieve the 80% passing grade.

The exida 4½ day training course offered by Excel Marco provides a good supplement to independent study and helps candidates on their final preparation and review prior to taking the CFSE/CFSP examinations. This training has been approved by the CFSE Governance Board.

The course is highly recommended for:

- Loss Prevention Professionals
- Process Safety Coordinators
- Plant Risk Analysts
- Control Engineers and their Management

Course Content

<u>Day 1:</u> • Introduction to Safety Instrumented Systems • The Safety Lifecycle • Principles of Risk Management • Probability • Process Hazards Analysis	<u>Day 3 & 4:</u> • Safety Instrumented System (SIS) Design • Fault Tolerant Architectures for Sensors, Logic Solvers and Final Elements • Safety Instrumented Functions, SIL Verification • System Engineering and Installation • Pre-Startup Safety Review • Operations and Management of Change
<u>Day 2:</u> • Layer of Protection Analysis (LOPA) • Safety Integrity Level (SIL) Selection • Safety Requirements Specification	<u>Day 5- Examination Revision (Half-day):</u> • Safety Lifecycle Concepts • Key Standards Review

Typical Class Size

Minimum of 12 participants and maximum intake of 20.

Recommended Texts for Preparation of Examinations

1. Safety Integrity Level Selection
2. Control Systems Safety Evaluation and Reliability
3. Safety Instrumented Systems Verification
4. CFSE Study Guide
5. Win-Win: A Manager's Guide to Functional Safety

** Please email us for enquiries on stock availability and price of texts.*

Certified Functional Safety Experts (CFSE)

CFSE is aimed at professionals who actively lead, coordinate and review the more **complex and demanding activities** in the Safety Lifecycle in **leadership positions** including SIL selection and SIL verification.

CFSE Eligibility Requirements for Examination

Applying candidates must have a minimum of 10 years of related experience with credit given for education as follows:

Highest Educational Level	With Engineering Degree	With Other Technical degree	With Non-Technical Degree
No higher level education	10 years	10 years	10 years
Bachelor's degree	7 years	8 years	9 years
Master's degree	6 years	7 years	8½ years
PhD	4 years	6 years	8 years
Professional Engineering Certification/License (PE)	Subtract 1 additional year	Subtract 1 additional year	Subtract 1½ additional year

Submission Requirements for CFSE Examination Application

Failure to submit any of the following by stipulated closing date may result in inability to secure a place or taking of examination at your own risk prior to acceptance to the exam. **Please note that there are no refunds.**

Please access <http://www.cfse.org/applicant.php> for forms and more details.

To submit by Applicant:

1. [Examination Application Form](#)
2. Copies of Educational Certificates
3. [Case Study Form](#), containing description of project where the candidate demonstrated his/her skills, knowledge and responsibility for a significant element of the safety lifecycle in accord with the relevant areas of 61508/61511/62061
4. [Referee Statement](#) - (4 referees) - submitted by referee (one for each referee listed in Examination Application Form). This will also include a supporting statement from one of the referees for the Case Study.
5. Copies of Licenses, Registration & Certificates
6. [Professional Conduct Statement](#)
7. Proof of Payment for Examination Application Fees (This is not required if fees are paid directly to Excel Marco)

Certified Functional Safety Professional (CFSP)

CFSP is for professionals who need a thorough understanding of the Safety Lifecycle activities at the execution level without necessarily leading, coordinating or reviewing the more complex and demanding activities.

CFSP Eligibility Requirements for Examination

Applying candidates must have a minimum of 2 years of related experience with credit given for education as follows:

Highest Educational Level	With Engineering Degree	With Other Technical degree	With Non-Technical Degree
No higher level education	2 years	2 years	2 years
Bachelor's degree & higher	0 year	0 year	1 year

Submission Requirements for CFSP Examination Application

Failure to submit any of the following by stipulated closing date may result in inability to secure a place or taking of examination at your own risk prior to acceptance to the exam. **Please note that there are no refunds.**

Please access <http://www.cfse.org/applicant.php> for forms and more details.

To submit by Applicant:

1. [Examination Application Form](#)
2. Copies of Educational Certificates
3. [Referee Statement](#) - (2 referees) - submitted by referee (one for each referee listed in Examination Application Form).
4. Copies of Licenses, Registration & Certificates
5. [Professional Conduct Statement](#)
6. Proof of Payment for Examination Application Fees (This is not required if fees are paid directly to Excel Marco)

Contact Us

For further enquiries, please email to training@excelmarco.com or alternatively, please contact our sales representative at Tel: +65 68586635 (Press 1 for Sales) or fax: +65 6858 2884.