

SAFETY ENGINEERING AND MANAGEMENT



– EXPERTS FOR A SAFER WORLD –

IN BRIEF



TRAINING LOCATION

Toulouse, France



DURATION

13 months or 2 years
(lifelong learning)



FEES

€9000 including VAT



ADMISSION

Requirements: Master's degree, or a 4-year Bachelor's degree plus at least 3 years of professional experience
Process: Examination of application and interview



ACCREDITATION

Post-Master's degree accredited by the French Conférence des Grandes Ecoles



SCHEDULE

Full-time training: 7-months
Lectures + 6-month internship

AUDIENCE

- The International Master may be followed as a second degree, as a specialization, or as a professional training course. It may be followed either full time (7 months of lectures from September to April) or part-time over two years, in order to continue a professional activity in parallel with the course.
- Disciplines include, but are not limited to, engineering, chemistry, biology, construction, information technology, and mathematics.

OBJECTIVES

- 1/ To develop a deep understanding of safety issues
- 2/ To understand safety management at strategic, tactical and operational levels and its implementation as a process
- 3/ To master risk-control methods, techniques and models and demonstrate confidence in highly-critical systems
- 4/ To apply these approaches and methods to the safety of complex industrial plants or products (e.g. aircraft and trains)

1

QUALITATIVE AND QUANTITATIVE APPROACHES TO SAFETY

- > Risk Identification
- > Risk Assessment
- > Risk Treatment

2

APPLICATIONS

- > Toxic Risks for Humans and the Environment
- > Process Safety
- > Structural Safety

PROGRAM

3

DEVELOPMENT OF SAFE SYSTEMS

- > Designing for Safety
- > Functional Safety

4

SAFETY MANAGEMENT

- > Risk Management Systems
- > Human, Organizational and Social Factors of Safety

TEACHING METHODS



Training combines lectures, teamwork, first-hand accounts from practitioners, and individual assignments. Background materials, such as videos, textbooks and selected documents are made available to students to help them to prepare for lectures and to develop case studies.



Our innovative Post-Master's Degree includes access to our Safety Education system. Safety Education is a private e-learning system that has been developed with numerous large companies.

It offers documents, videos, skills' tests, etc. that help students to benefit from the considerable experience that has been accumulated by ICSI over the past 15 years



INVOLVEMENT

The training process is inclusive. Students take part in the development of industrial projects, and help to build knowledge through the preparation of textbooks, videos, etc. ICSI's active collaboration with industry supports students in finding an internship.

INFORMATIONS

Post-Master's Degree Programme

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