

## **SAFETY & RELIABILITY ENGINEERING (ONLINE – JANUARY START) (MSc/PgDip/PgCert)**

**63H1JDB1/63H1JDVX/63H1JDVZ**

*Duration:* MSc 30 months part-time; PgDip 18 months part-time; PgCert 8 months part-time.

*Content:* The aim of the programme is to provide an opportunity for graduate engineers to develop a career in the general area of safety and reliability engineering and risk management.

Online Learning students will be expected to propose their own project and to seek an industrial supervisor. It is envisaged that most students studying part-time online learning will undertake the necessary research for their project in their place of work. The subject for a student's dissertation will be approved by the Programme Co-ordinator.

### Year 1

EG55Q4 Process Design, Layout & Materials (15 credit points)  
EG55Q5 Human Factors Engineering (15 credit points)  
EG50S3 Safety and Risk Management (15 credit points)  
EG501E Statistics and Probability for Safety, Reliability & Quality (15 credit points)

### Year 2

EG551E Applied Risk Analysis and Management (15 credit points)  
EG551D Advanced Methods for Risk and Reliability Assessment (15 credit points)  
EG501G Fire and Explosion Engineering (15 credit points)  
EG50G8 Subsea Integrity (15 credit points)

### Year 3

EG504G Safety Engineering Individual Project (60 credit points)

*Assessment:* By written examination and course work as prescribed for each course. In addition, MSc candidates must submit a dissertation project, and may be required to undergo an oral examination. The Degree of MSc shall not be awarded to a candidate who fails to achieve a CGS Grade of D3 or above in the individual project, irrespective of their performance in other courses.