

# Management of Safety, Health & Environment 2019/2021

Taking safety to a higher level



# Management of Safety, Health & Environment

**Good working conditions and safety in the workplace, safety of processes with a minimum impact on the environment and balancing safety and security levels with conflicting values and uncertainties are important aspects of business that must be organised efficiently and sustainably. With its Management of Safety, Health & Environment (MoSHE) programme, TU Delft's Faculty of Technology, Policy and Management prepares professionals to play a key role in the day-to-day implementation of safety requirements and the development of future policy.**

This two-year, part-time programme has been bringing a leading academic approach to the workplace for more than thirty years.

The educational team is made up of acclaimed lecturers who will assist you in enabling academic knowledge to be applied in your organisation.

Dealing with aspects of safety, health and the environment is nothing other than managing risks. For this reason, risk management lies at the heart of the curriculum, alongside behavioural sciences and, of course, creating a healthy and safe working environment.

The curriculum, that includes both classroom training and practical homework assignments, provides you with a solid grounding in Safety, Health & Environment (SHE) methodologies and their impact on organisations, together with the skills to apply these methodologies appropriately.

The programme will encourage you to apply the highest standards of ethics and to tackle SHE challenges in a way that is properly considered and sustainable. On successful completion of the programme, you will receive a Diploma in Professional Education Management of Safety, Health & Environment from the internationally-renowned Delft University of Technology. This is an internally-certified diploma and is not the equivalent of an MSc degree.

## For participants

Participants learn to take on strategic challenges and increase their specialist skills without interrupting their career. They learn to act at every level within an organisation. On successful completion, participants are awarded a diploma.

## For organisations

MoSHE puts academic knowledge in the SHE field into practice and enables it to be applied in your own organisation by means of projects, assignments and a final thesis. The programme prepares your employees to work with SHE at a strategic level and increase their SHE network.



## Benefits

- Tried-and-trusted strategies for managing risk, analysing complex problems, advising senior management and investigating incidents and near misses within your own organisation
- Expanding your own network with SHE professionals from a wide range of academic and commercial sectors
- A boost to your knowledge level and expertise
- A diploma from the internationally-renowned Delft University of Technology

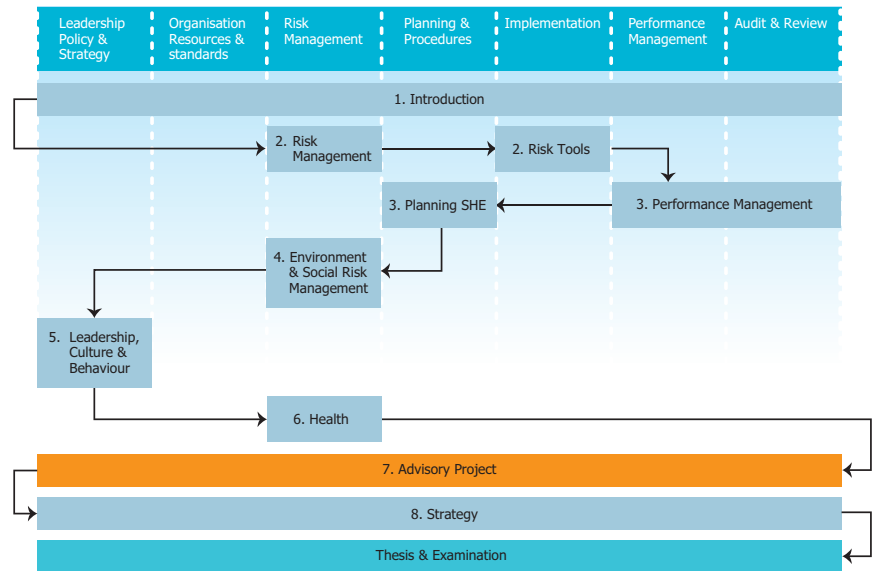
The part-time programme in Management of Safety, Health & Environment (MoSHE) has been designed for professionals who wish to take a post-initial SHE programme alongside their job. The two-year curriculum includes nine weeks in the classroom at a location near Delft. You can find more information about the practical planning of the programme at [www.moshe.tudelft.nl](http://www.moshe.tudelft.nl).

The programme participants do joint modules on location, complete homework assignments, conduct an SHE advisory project at a company and write and defend a thesis.

The modules and homework assignments have been designed to enable participants to discover the relevant subjects from the context of their own professional background and apply them within their own company. In this, they are supported and supervised by the module managers.

As a whole, the curriculum covers the seven aspects of a Safety Management System: Governance, Policy & Strategy, Organisational Resources, Risk Management, Planning & Procedures, Implementation, Performance Management and Inspection & Monitoring. The diagram provides an overview of the organisation of the curriculum.

# Programme



## Module 1: Introduction

The main aim of the introductory module is to introduce the specific modules in the programme, analyse the complex SHE problems and explore them from different perspectives.

## Module 2: Risk management

This module addresses the Risk Management Model in detail. This is followed by an investigation of the technical side of risk management, with the focus on methods and techniques for analysing and assessing SHE-related threats and risks.

## Module 3: Performance Management and Planning

This module looks at the methodological aspects of collecting and analysing data. It also covers the integration of SHE within business models and planning.

## Module 4: Environment & Social Risk Management

This module looks at the similarities and differences between social and environmental risk management and their integration within an overarching risk management system.

At the end, a plan and budget for a risk management system will be presented to a professional panel.

## Module 5: Culture, Leadership and Behaviour

This module provides participants with understanding and a range of skills for planning and leading an effective SHE improvement programme by influencing behaviour; facilitating an effective SHE behavioural influence programme as main adviser; identifying potential bottlenecks in the SHE culture; being an effective leader; and applying the different instruments and processes to tackle specific problems and achieve sustainable changes.

## Module 6: Health

This module explores health-related subjects such as hygiene at work in greater detail. Specific themes are explored by means of case studies. These include: 1) hazardous materials, 2) noise, 3) climate, 4) radiation and 5) security.

## Module 7: SHE Advisory Project (SHEAP)

The SHE Advisory Project is an integrated part of the programme. Working in groups, participants tackle a practical problem at a guest company and report their findings and proposed solutions to the management. The aim of the project is to give participants in the programme hands-on experience in working in a multidisciplinary SHE group. In it, they will be able to apply all of the specialist knowledge they have acquired.

## Module 8: Strategy

This module highlights key aspects of complex SHE challenges, identifying stakeholders, strategy, vision and mission. Participants practise devising, evaluating and prioritising potential strategies and compiling an implementation plan. How will I tackle developments and uncertainties in the future? An important task faced by every SHE professional is to present ideas to management and get them accepted. Participants will learn the skills needed to influence employees and managers.



**“In addition to specific subject-related knowledge, MoSHE students learn to conduct research systematically and critically evaluate studies by other people“**

**Dr. Simone Sillem, programme coordinator**



**Do you want to improve safety in your organisation?  
Do you want to be better equipped to deal with SHE regulations? Would you like to lead a cultural shift in how your organisation deals with SHE issues?**

**Are you developing a vision on future SHE issues and wish to find out what technical improvements are possible?  
If you are facing these challenges, you are a perfect candidate for TU Delft’s Management of Safety, Health & Environment programme.**

#### **Participant profile**

The programme has been designed for professionals in the SHE sector, such as experts in operational safety departments or people who have an influence on SHE policy within companies. The programme has proven its success in training advisers and inspectors who are working in sectors of industry, certification bodies and government authorities. Most participants have years of experience in the SHE field and aim to work at strategic level in medium-sized and large companies or organisations in the Netherlands and internationally.

#### **Lecturers**

The lecturers on the MoSHE programme are experts in their specialist fields. The theoretical grounding is provided by experts from TU Delft and other Dutch and international universities. Additional information on specific subjects is provided by advisers from specialist consultancies. Lessons on the practical side of a range of issues are taught by representatives from the public sector and the business community. The main aim is to apply theory in practical situations.

#### **Advisory Council**

An Advisory Council has been established to ensure that the programme content remains up-to-date and relevant. The programme has been developed in alliance with universities, knowledge institutions, businesses and government organisations. The Advisory Council members represent these sectors.

**For further information and to apply, visit [www.moshe.tudelft.nl](http://www.moshe.tudelft.nl)**

**“We must invent smart measures to improve SHE. These may be technological, organisational or human in nature”**

**Prof. Pieter van Gelder, Programme Director**







“It’s all about managing risks”

#### **Homework and other assignments**

Each module culminates in an assignment that tests participants’ knowledge and skills relating to the specific module. In addition, homework assignments that relate to participants’ own organisations will be done throughout the programme.

#### **Thesis and examination**

After completing all the modules, each participant must write a thesis and submit it to the Board of Examiners. This is followed by an oral examination in which participants defend their theses to the Board of Examiners. The programme also includes a course in developing academic skills. These half-day workshops are interwoven within the modules and help participants to develop a research proposal.

#### **Study load**

The programme has been constructed to enable maximum overlap between the programme and the participant’s current or future job. Both individual participants and the organisations involved can gain maximum benefit from the programme on offer.

The MoSHE programme is a challenging programme. Participation requires a significant investment in terms of time and energy. Not everyone finds it easy to strike the right balance between work, study and private life, but previous participants have found the investment to be more than worthwhile.

The programme’s study load amounts to 60 ECTS (1,680 hrs.). Of these, 40 ECTS (1,120 hrs.) are spread across seven substantive modules and the SHE advisory project. The thesis amounts to 20 ECTS (560 hrs.). The 40 ECTS are spread across 15 ECTS (420 hrs./ 9 weeks of lessons) of contract hours and 25 ECTS (700 hrs.) for self-study and homework assignments. Each module consists of one or two five-day weeks of lessons (Monday to Friday, including evenings).

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**On successful completion, you will receive a TU Delft diploma**

#### **Admission**

Candidates are admitted to the programme based on their previous qualifications, CV and individual motivation. The MoSHE programme is a post-initial programme and participants are therefore expected to be able to work at an academic level, have at least a HBO (higher professional education) diploma and five years’ relevant work experience.

In the admissions interview with the programme coordinator, your capacities, motivation and knowledge of the field will be discussed and you will receive further information about the programme. The decision on admission is taken by the programme director.

#### **The location**

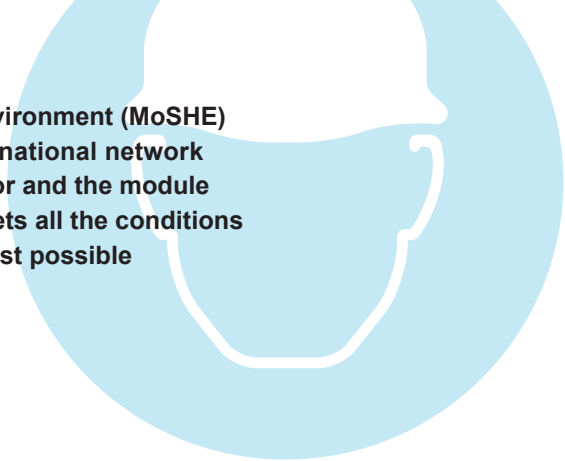
The intensive nature of the MoSHE programme calls for a special location. All of the lessons in the MoSHE programme take place at the Van der Valk Hotel Den Haag - Nootdorp, a four-star conference hotel on the A12 motorway near The Hague. Participants in the MoSHE programme can opt to stay overnight in the hotel during the lesson weeks.

To help you complete the programme successfully, you will be allocated a personal supervisor. All course materials are available on our online platform, enabling you to view the materials anywhere. You can also use the platform to work with fellow students on assignments. Participants can make use of the University Library free of charge. The library has fully-equipped workspaces that you can use for self-study.

#### **Costs**

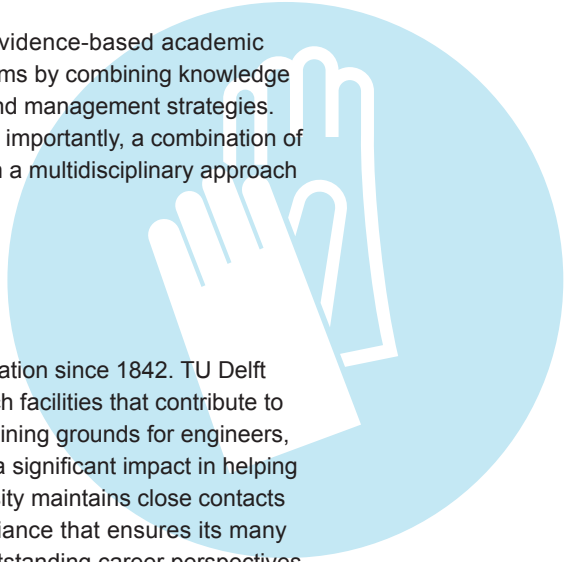
You can see the current programme costs on our website. You can also register there and find the conditions of enrolment.

**Programme team** The Management of Safety, Health & Environment (MoSHE) programme has been developed and is offered by an international network of experts. The programme director, programme coordinator and the module managers work together to ensure that the programme meets all the conditions set by TU Delft for its study programmes and has the highest possible professional and academic level.



## Faculty of Technology, Policy and Management

The Faculty of Technology, Policy and Management (TPM) offers evidence-based academic perspectives for applying innovative methods to solve societal problems by combining knowledge and applying it in institutional design and redesign, process design and management strategies. This involves technological, policy and economic expertise and, most importantly, a combination of these specialist fields. Bringing together different types of expertise in a multidisciplinary approach lies at the heart of the faculty's programmes and research.



## Delft University of Technology

Delft University of Technology has been providing technological education since 1842. TU Delft is a modern university with eight faculties and state-of-the-art research facilities that contribute to high-quality research and education. As one of the world's leading training grounds for engineers, TU Delft sees its mission in society as delivering solutions that have a significant impact in helping to achieve a sustainable society and a healthy economy. The University maintains close contacts with the Dutch and international business community, a strategic alliance that ensures its many academic programmes can be applied in practice and guarantees outstanding career perspectives for its graduates. All programmes encourage creative, independent and solution-oriented thought.

## NOISSE

Alumni in the fields of public safety, security, safety, health & environment and patient safety (i.e. S&S alumni) have established a platform in the form of the NOISSE alumni association. As an association, NOISSE aims to provide better facilities and a solid base for the alumni network. NOISSE will organise meetings for alumni in order to network, share knowledge and learn more. We also intend to work to support ongoing development and degree programmes in our specialist field. Together with the TU Delft faculties, NOISSE is committed to the continued development of graduate S&S professionals. All graduates of Safety and/or Security Master's degree programmes at Delft TopTech and TU Delft are welcome. NOISSE members are also available to provide candidates interested in the MoSHE programme with information on the programme from a student perspective.



## Contact

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