



GLOBAL
SANITATION
GRADUATE
SCHOOL

Citywide
Inclusive
Sanitation (CWIS)

Online Course Series

www.cwis.online

OPEN  ACCESS

Background

In 2018 IHE Delft Institute for Water Education, in partnership with the Bill & Melinda Gates Foundation, launched a **new curriculum** on non-sewered sanitation^{1,2}. The focus of this interdisciplinary curriculum is on the delivery of non-sewered sanitation provision to urban communities in the context of the United Nations Sustainable Development Goals. This Delft-based curriculum, the backbone of the **Global Sanitation Graduate School (GSGS)**, has already been adopted by **42** GSGS universities in Africa, Asia and Latin America, in the form of Master of Science programs³, the Graduate Professional Diploma Program⁴ and on-campus courses⁵.

Open access CWIS course package

We are delighted to complement the GSGS portfolio of educational offerings with the Citywide Inclusive Sanitation (CWIS) Online Course Series - a package of **open access** distance learning courses on CWIS. The CWIS Online Course Series currently consists of **10 exciting courses** prepared by internationally renowned sanitation experts, and is expected to expand with more courses in the near future. All the courses in the series are **free** and suited for individual use in **self-study** mode, while several GSGS partners also provide a guided version⁶ which includes online guidance, exams and certificates. Each course in the series is **stand-alone** and available as a package consisting of video lectures, presentations, assessments and additional study materials. Courses can be studied in any order that suits the user's needs and can all be **downloaded** from the dedicated website (www.cwis.online) including the guidelines on how to use the materials. If you need additional support, do not hesitate to contact us.

www.cwis.online

¹ Master of Science Program in Sanitation (2018-2022)
<https://sanitationeducation.org/master-program/master-science-program-sanitation/>

² Master of Science Program in Water and Sustainable Development (2022 onwards)

³ <https://sanitationeducation.org/msc-in-sanitation/>

⁴ <https://sanitationeducation.org/gpdp/>

⁵ <https://sanitationeducation.org/on-campus-courses/>

⁶ <https://sanitationeducation.org/online-courses/>

CWIS Online Course Series courses

- Sanitation and public health
- Analysis of sanitation flows
- Sanitation systems and services
- Sanitation technology
- Gender and sanitation
- Behavioural change and advocacy
- Leadership
- Sanitation governance
- Sanitation finance
- Project management

Target groups

The CWIS Online Course Series covers a variety of topics, both of a **technical** and **non-technical** nature and are suitable for all **sanitation professionals** whether they are academicians, government officials or practitioners who wish to learn about CWIS in order to approach sanitation challenges with deeper insight, advanced knowledge and greater confidence built on stronger competence.



Enrol on our courses today and become a champion in developing and implementing citywide inclusive sanitation!



Sanitation and public health

This course will provide you with an in-depth understanding of the relationship between sanitation and public health, and how we can control diseases and improve human health. By the end of this course you will be able to identify a range of health hazards associated with human excreta in communities, identify disease and transmission routes, and evaluate the control and prevention of health hazards. You will look at case studies of sanitation intervention trials and learn about the latest risk evaluation technologies. You will embrace the critical role that sanitation plays in promoting public health, and you will be equipped with the knowledge and skills you need to design and implement sanitation systems that protect and promote the health of communities.



Analysis of sanitation flows

Our course is designed to enable you to distinguish between different sanitation flows or streams through their physicochemical and microbiological characteristics. We will cover waste and sanitation, make a comparison of sanitation flows, look at faecal sludge characteristics, and learn why it is important to measure the characteristics of sanitation flows. After this course you will be able to compare the characteristics of different sanitation flows and assess their potential pollution and health impacts, and evaluate the results gained from laboratory tests to identify samples taken from various sanitation flows. You will have a deep understanding of the critical elements of analysing sanitation flows, and you will be equipped with the knowledge and skills you need to apply them in your own work.



Sanitation systems and services

In this course we will learn how to apply the systems approach to urban sanitation at different scales, what CWIS is and how this approach influences frameworks and concepts for urban sanitation systems and services. We will look at CWIS case studies, stakeholder involvement, and propose and apply strategies for different urban contexts, and also use the Compendium of Sanitation Systems and Technologies to solve urban sanitation challenges. By the end of the course, you will have a good understanding of the different tools used for data collection and assessment, urban sanitation diagnostic tools and stakeholder analysis. Whether you are a sanitation professional looking to improve access to sanitation services in your community, or a policy maker looking to create more effective sanitation systems, this course will give you the knowledge and skills to succeed.



Sanitation technology

The UN Sustainable Development Goals have highlighted that at current rates, by 2030 more than 2.8 billion people will lack safely managed sanitation and they will mostly rely on non-sewered, onsite sanitation solutions. This course follows the holistic CWIS approach focusing on both sewered and non-sewered sanitation provision. You will conceptualise and critically assess technological options in sanitation. To do so, interesting videos, presentations and reading materials have been prepared for you by internationally renowned experts in sanitation technology. By the end of the course, you will have a comprehensive understanding of the technical fundamentals of the technological components of the sanitation infrastructure and their role in a wider CWIS context, and you will be equipped with the knowledge and skills you need to apply them effectively in your own work.



Gender and sanitation

Gender and onsite sanitation are intrinsically linked. This course introduces the current concepts of onsite (non-sewered) sanitation and gender, and explores how these two topics intercept through a series of current case studies and activities. By the end of the course you will have a in-depth understanding of gender and sanitation systems, and you will be equipped with the knowledge and skills you need to apply them in your own work. You will be able to analyse case studies and develop a case study on gender and onsite sanitation. Whether you are a sanitation professional looking to improve gender equity or a policymaker looking to create more inclusive and sustainable sanitation systems, this course will give you the tools you need to succeed.



Behavioural change and advocacy

In this course we will highlight the significance of behavioural change and advocacy across the sanitation service chain. You will learn about behavioural theories and advocacy methods from prominent sanitation professionals who have designed and implemented impactful interventions in Africa, Asia and Latin America. You will learn about behavioural change and advocacy concepts and models in practice; how to apply knowledge from interdisciplinary case examples to result in actual sanitation behavioural change and advocacy; and how to develop non-sewered sanitation behavioural change and advocacy intervention strategies for a diverse range of populations and contexts. By the end of the course you will understand the concepts of behavioural change, and recognize different approaches and you will be equipped with the knowledge and skills you need to apply them in your own work.



Leadership

This course will equip you with the knowledge and skills necessary to lead in the field of water and sanitation management. During the course you will identify and develop your self-awareness and communication skills, examine the concepts of leader, leadership, and management, choose from various communication skills; and consider your current and desired capacity as leader. We will also cover communication skills and self-reflection, and topics such as building and maintaining trust, active listening, giving and receiving feedback, conflict management and negotiation. You will carry out a self-assessment in order to prepare an individual leadership development plan. Whether you are an experienced sanitation professional looking to develop your leadership skills or starting out, this course is perfect for you. By the end of it you will have the knowledge, skills and confidence to lead in the sanitation sector and make a positive impact in the sector.



Sanitation governance

Sanitation governance is about the policies, regulations, and institutions that govern how urban sanitation systems are managed and operated. This course explores developments in equity, inclusivity and justice, and what they mean for allocating infrastructure and distributing waste. We will also discuss the key concepts of techno-managerial, political and interpretative understandings of sanitation governance and learn about their influence on governance processes. By the end of the course you will have a good understanding of the key elements of effective sanitation governance, and you will be equipped with the knowledge and skills you need to apply them in your own work. Whether you are a sanitation professional looking to improve governance in your organization or a policymaker looking to create more effective governance structures, this course will give you the tools you need to succeed.



Sanitation finance

This course will teach you about the current trends and needs in sanitation financing within the UN Sustainable Development Goals framework. You will also learn about issues related to financing, as well as novel and innovative financing approaches including private-public partnerships. We will explore and learn how to develop business models with the entire sanitation value chain. You will also gain practical knowledge to develop the costing and financing of a financially viable project and you will be able to outline key aspects of sustainability and different financing models. By the end of the course you will have a deep understanding of the critical elements of sustainable financing for sanitation systems, and you will be equipped with the knowledge and skills you need to apply them in your own work.

for treatment of:

faecal sludge

c sludge

age sludge

TECHNO SANITIZER™

MOBILE SLUDGE TREATMENT
TECHNOLOGY



Project management

This course covers everything from the basics of project planning to the role of stakeholder engagement and risk management in ensuring successful projects. You will learn how to develop a comprehensive sanitation project proposal, a project implementation plan and a Monitoring, Evaluation and Learning plan. You will also learn about the project management cycle and various approaches and frameworks used for result-based project management. In addition, you will develop a sanitation project proposal and implementation plan based on a real case study. By the end of the course you will have hands-on experience in developing a sanitation project proposal and implementing a project. You will be well-equipped to lead teams, engage stakeholders and ensure that your projects make lasting impacts on the communities they serve.



Global Sanitation Graduate School

The Global Sanitation Graduate School (GSGS) is a platform to facilitate the development and empower the dissemination of knowledge on sanitation through postgraduate (MSc) programs, online (self-study and instructor-led) courses, face-to-face (on-campus) courses and tailor-made training so that the sanitation challenges can be embraced with deeper insight, advanced knowledge, and greater confidence.

This rapidly-growing global network of currently 42 universities aims to yield 10,000 champions in developing and implementing sanitation in the context of the UN Sustainable Development Goals by the year 2030. The GSGS offers a variety of course materials as open courseware and is continuously updating its courses to remain at the forefront of academic and professional developments in the field. It is rapidly expanding and welcomes new members.

GSGS is supported by the Bill & Melinda Gates Foundation (grant OPP1192599) and is managed by IHE Delft Institute for Water Education.

www.sanitationeducation.org

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