

## Certificate of Advanced Studies in Water, Sanitation and Hygiene for humanitarian and developing contexts Academic year 2021-22 – 3<sup>rd</sup> Edition

### Kick-off meeting

Date	Time (CET)	Unit title	Speaker(s)
17.03.2022	1 - 4:30 pm	<ul style="list-style-type: none"> <li>▪ Kick off meeting : team building, course objectives and agenda</li> </ul>	whole team

### Module 1 – Drinking water and public health (online)

Date	Time (CET)	Unit title	Speaker(s)
24.03.2022	1 - 4:30 pm	<ul style="list-style-type: none"> <li>▪ Introduction: water quality and public health</li> <li>▪ Water borne diseases</li> <li>▪ Drinking Water, chemicals and Health</li> </ul>	Valsangiacomo
31.03.2022	1 - 4:30 pm	<ul style="list-style-type: none"> <li>▪ WASH during a humanitarian intervention</li> <li>▪ SDG 6</li> <li>▪ WHO drinking water guidelines/ sanitary inspection of WASH facilities</li> </ul>	Valsangiacomo
07.04.2022	1 - 4:30 pm	<ul style="list-style-type: none"> <li>▪ Key concepts and actions during Emergency</li> <li>▪ Water Cycle: towards sustainable water resource management</li> <li>▪ Integrated Water Resource Management in Emergency</li> <li>▪ Water safety plans</li> <li>▪ Groundwater: introduction</li> </ul>	Friedl
14.04.2022	1 - 4:30 pm	<ul style="list-style-type: none"> <li>▪ Management and governance related to WASH</li> <li>▪ Legal/regulatory aspects and water pricing</li> <li>▪ Anthropological aspects related to WASH</li> <li>▪ Emergency water sources</li> </ul>	Valsangiacomo
21.04.2022	1 - 4:30 pm	<ul style="list-style-type: none"> <li>▪ Exam</li> </ul>	Valsangiacomo

## Module 2 – Environmental Sanitation (online)

Date	Time (CET)	Unit title	Speaker(s)
28.04.2022	1 - 4:30 pm	<ul style="list-style-type: none"> <li>Introduction to Environmental sanitation</li> <li>Basic urban services and service delivery chains</li> <li>Sanitation systems in contexts: why do service chains fail?</li> </ul>	Lüthi
05.05.2022	1 - 4:30 pm	<ul style="list-style-type: none"> <li>Citywide inclusive sanitation (CWIS)</li> <li>Community-Led Urban Environmental Sanitation (CLUES)</li> <li>Innovations in urban sanitation</li> </ul>	Lüthi
12.05.2022	1 - 4:30 pm	<ul style="list-style-type: none"> <li>Sanitation and public health</li> <li>Pathogens in WASH</li> <li>Climate change impacts on WASH</li> </ul>	Uprety
19.05.2022	1 - 4:30 pm	<ul style="list-style-type: none"> <li>Data collection and rapid assessments</li> <li>Emergency sanitation</li> <li>Behaviour change approaches &amp; methods</li> </ul>	Friedrich Harter
26.05.2022	1 - 4:30 pm	<ul style="list-style-type: none"> <li>Exam</li> </ul>	Lüthi

## Module 3 – Sustainable water supply (online)

Date	Time (CET)	Unit title	Speaker
02.06.2022	1 - 4:30 pm	<ul style="list-style-type: none"> <li>Introduction to sustainable water supply in humanitarian and development contexts</li> <li>Introduction to applied hydrogeology : water balance and resource evaluation</li> </ul>	Milnes Pronk
09.06.2022	1 - 4:30 pm	<ul style="list-style-type: none"> <li>Water source assessment</li> <li>Groundwater potential mapping and water supply master planning</li> <li>Groundwater exploration: Geophysical investigation methods</li> </ul>	Milnes Pronk
16.06.2022	1 - 4:30 pm	<ul style="list-style-type: none"> <li>Groundwater exploitation</li> <li>Basics of well construction relevant to well assessments</li> <li>Pumping tests and water scheme design</li> </ul>	Milnes Pronk
23.06.2022	1 - 4:30 pm	<ul style="list-style-type: none"> <li>Water distribution networks (EPANET)</li> </ul>	Cippà
30.06.2022	1 - 4:30 pm	<ul style="list-style-type: none"> <li>Exam</li> </ul>	Milnes

## Module 4 – Practical fieldwork (on site)

The practical module will take place in Mendrisio, Switzerland, on the area surrounding the new campus of the University of Applied Sciences and Arts of Southern Switzerland (SUPSI). All participants will be hosted at Ca'Stella, an historic residence situated in the beautiful and picturesque neighbourhood of Meride.

For more information, please visit: <https://castellafarm.ch/>.

Date	Time (CET)	Unit title	Speaker
30.09.2022	All day	<ul style="list-style-type: none"> <li>▪ Arrival at venue (Mendrisio/Meride)</li> <li>- <b>Closest train station:</b> Mendrisio</li> <li>- <b>Closest airport:</b> Milan Malpensa (MXP; LIMC)</li> </ul>	-
01.10.2022	All day	<ul style="list-style-type: none"> <li>▪ In case of failure of previous exams: oral make-up test</li> <li>▪ Local excursion and team building</li> </ul>	whole team
02.10.2022 to 07.10.2022	All day	<ul style="list-style-type: none"> <li>▪ Practical field work</li> </ul>	whole team
08.10.2022	All day	<ul style="list-style-type: none"> <li>▪ Closing ceremony; delivery of certificates</li> </ul>	whole team

### Enrolment link

<https://fc-catalogo.supsi.ch/Course/Details/1000003472>

Please apply by February 28<sup>th</sup> 2022