

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

Kick-off meeting			
Day	Time (CET)	Unit title	Speaker
mid-March 2022	1-5 pm	<ul style="list-style-type: none"> ▪ CAS-WASH 2021 – Kick off meeting : team building, course objectives and agenda 	The whole team

Module 1 – Sustainable water supply (online)			
Day	Time (CET)	Unit title	Speaker
To be defined	1-5 pm	<ul style="list-style-type: none"> ▪ Introduction to sustainable water supply in humanitarian and development contexts ▪ Introduction to applied hydrogeology : water balance and resource evaluation 	E. Milnes M. Pronk
To be defined	1-5 pm	<ul style="list-style-type: none"> ▪ Water source assessment ▪ Groundwater potential mapping and water supply master planning ▪ Groundwater exploration: Geophysical investigation methods 	E. Milnes M. Pronk
To be defined	1-5 pm	<ul style="list-style-type: none"> ▪ Groundwater exploitation ▪ Basics of well construction relevant to well assessments ▪ Pumping tests and water scheme design 	E. Milnes M. Pronk
To be defined	1-5 pm	<ul style="list-style-type: none"> ▪ Water distribution networks (EPANET) ▪ Sustainable water supply: solar water supply ▪ Sustainable water supply: groundwater monitoring 	A. Cippà
To be defined	1-5 pm	<ul style="list-style-type: none"> ▪ Exam 	E. Milnes

Module 2 – Environmental sanitation (online)			
Day	Time (CET)	Unit title	Speaker
To be defined	1-5 pm	<ul style="list-style-type: none"> ▪ Introduction to Environmental sanitation ▪ Basic urban services and service delivery chains ▪ Sanitation systems in contexts: why do service chains fail? 	C. Lüthi
To be defined	1-5 pm	<ul style="list-style-type: none"> ▪ Citywide inclusive sanitation (CWIS) ▪ Community-Led Urban Environmental Sanitation (CLUES) ▪ Innovations in urban sanitation 	C. Lüthi
To be defined	1-5 pm	<ul style="list-style-type: none"> ▪ Sanitation and public health ▪ Pathogens in WASH ▪ Climate change impacts on WASH 	S. Uprety
To be defined	1-5 pm	<ul style="list-style-type: none"> ▪ Data collection and rapid assessments ▪ Emergency sanitation ▪ Behaviour change approaches & methods 	C. Friedrich M. Harter
To be defined	1-5 pm	<ul style="list-style-type: none"> ▪ Exam 	C. Lüthi

Module 3 – Public health (online)

Day	Time (CET)	Unit title	Speaker
To be defined	1-5 pm	<ul style="list-style-type: none"> Introduction: water quality and public health Water borne diseases Drinking Water, chemicals and Health 	C. Valsangiacomo J. Bartram
To be defined	1-5 pm	<ul style="list-style-type: none"> WASH during a humanitarian intervention SDG 6 WHO drinking water guidelines/ sanitary inspection of WASH facilities 	C. Valsangiacomo J. Bartram
To be defined	1-5 pm	<ul style="list-style-type: none"> Key concepts and actions during Emergency Water Cycle: towards sustainable water resource management Integrated Water Resource Management in Emergency Water safety plans Groundwater: introduction 	G. Friedl
To be defined	1-5 pm	<ul style="list-style-type: none"> Management and governance related to WASH Legal/regulatory aspects and water pricing Anthropological aspects related to WASH 	C. Valsangiacomo
To be defined	1-5 pm	<ul style="list-style-type: none"> Recap session and preparation for On-site course 	C. Valsangiacomo E. Milnes
To be defined	1-5 pm	<ul style="list-style-type: none"> Exam 	C. Valsangiacomo

Module 4 – Practical field work (on site)

Day	Time (CET)	Unit title	Speaker
To be defined	To be defined	<ul style="list-style-type: none"> Oral exam (if required) 	-
30 September to 8 October 2022	All day	<ul style="list-style-type: none"> Practical field work with simulation exercise, intervention strategy, coordination 	The whole team