

TRAINING and CERG-C DIPLOMA

CERG-C modules are best taken consecutively, but may be taken independently with prior permission. The requirements to receive the postgraduate certificate (equivalent to 30 ECTS) include: five modules (lectures, field work, exams) and a personal dissertation (to be completed within 2 years).

DURATION

9 weeks including 7 weeks of lectures and field work, and 2 weeks of exams. Lectures are given in English.

ADMISSION

Candidates are selected on the basis of a submitted proposal, their professional experience and/or their academic background. Submission deadline for application is mid-September, each year.

FEES

Complete training (including university fees, course material and field work): CHF 4400.—

Living costs (i.e. accommodation, meals, insurance, public transport) : CHF 4150.—

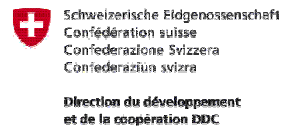
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PROFESSIONAL PERSPECTIVES

Previous participants having achieved the CERG-C certificate are now working with national public administration (e.g. Universities, national environmental or construction agencies), international organizations (e.g. UN/ISDR) or private companies.

CONTACTS

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SPECIALISATION CERTIFICATE IN GEOLOGICAL AND CLIMATE RELATED RISK



April to June, annually



COURSE OBJECTIVES

The essence of our work at CERG-C is to train participants on how to incorporate risk science into everyday life in an attempt to reduce losses to an acceptable level. Crucial components of our program include training participants on how to assess risk and how to communicate effectively with government agencies, media, public and private sectors before, during and after natural disasters.

PARTICIPANTS

People working in the field of disaster reduction in governmental and non-governmental organisations or in private institutions, and those who wish to deepen their understanding of geological risk.

ECTS CREDITS

Postgraduate certificate for 30 ECTS (European Credit Transfer and Accumulation System) credits:

- 5 modules (18 ECTS credits)
- A dissertation (12 ECTS credits)

The dissertation can be based on independent research or on an internship with one of the partner organizations.

COURSE CONTENT (5 MODULES):

MODULE 1 : RISK MANAGEMENT

The goal of this key module is to provide participants with tools they can use to assess risk and provide solutions to risk-management issues in their own countries. This module brings together a multi-disciplinary team of experts representing fields such as social sciences, geography, law, land-use planning, statistics, media communication and economics.

MODULE 2 : VOLCANIC RISK

This module focuses on the mechanisms of volcanic eruptions and their associated hazards and risks. It also integrates the process of risk mapping and decision making.

MODULE 3: SEISMIC RISK

This module introduces the basics of seismicity and investigates the implications of earthquake mechanisms on infrastructure vulnerability.

MODULE 4 : LANDSLIDE RISK

This module addresses the causes and mechanisms of landslide phenomena, as well as mitigation strategies, such as engineering controls and land-use planning.

MODULE 5 : FLOOD RISK AND CLIMATE CHANGE

This module discusses hydrological processes and the analysis of flood risk assessment. It also integrates climate change issues and their potential impacts on slow (e.g. drought) and rapid onset events (e.g. flash floods).

TEACHING TEAM

Our teaching team comprises some 30 international experts in the field of natural risk coming from various institutions involved in disaster reduction.

Academic institutions

- University of Geneva (Section of Earth and Environmental Sciences and Institute for Environmental Sciences (ISE))
- University of Lausanne (Institute of Geomatics and Risk Analysis)
- University of Fribourg (Faculty of Law)
- Swiss Federal Institute of Technology of Zürich (Swiss Seismological Service)
- Swiss Federal Institute for Forest, Snow and Landscape Research
- Politecnico of Milan, Italy
- University of Pisa (Dpt of Earth Sciences), Italy
- East Tennessee State University (Dpt of Geosciences), USA
- University of South Florida (Dpt of Geology), USA
- UNU-ITC School for Disaster Geo-information Management, Netherlands

Non-governmental, national and international organizations

- Swiss Coordination Center for Earthquake Mitigation
- Swiss National Emergency Operations Centre
- Swiss Humanitarian Aid
- INGV, Italy
- World Meteorological Organization (WMO), Geneva
- UN/ISDR, Geneva
- UNOSAT, Geneva
- Shelter Centre, Geneva