



Dam Safety Management for Africa

Ensuring Resilience and Sustainability

6 – 10 May 2024 • GHANA



Application deadline; 27. March 2024

Course fee – €EUROS 1000,- ICH Members' Course Fee: – €EUROS 900,-

Fee includes course materials, meals, and accommodation



Gaining through Training



Dam safety in Africa faces unique challenges due to diverse climates, varying technological advancements, and infrastructural demands. The continent's reliance on dams for hydropower, irrigation, and water supply makes safety a paramount concern. Issues such as aging infrastructure, sedimentation, extreme weather events, and limited access to advanced monitoring technologies are prevalent.

Addressing these challenges is crucial for ensuring the sustainable management and safety of Africa's dam infrastructure.

RATIONALE

Designed for professionals in the renewable energy sector and those working with multipurpose dams in Africa, this course addresses these challenges head-on, providing an immersive understanding of dam safety through a blend of theoretical knowledge and practical, real-world applications.

The program includes pre-training assignments, interactive lectures, site visits for practical inspections, and hands-on sessions on modern instrumentation and monitoring technologies. It culminates in participants drafting their own Dam Safety Management plans, emphasizing operational and maintenance strategies for dam safety.

COURSE OBJECTIVES

- To provide in-depth understanding of dam safety principles, failure modes, risk assessment, emergency preparedness and action planning
- To enhance skills in visual inspection, understanding dam design, and identifying potential issues emergency preparedness.
- To offer practical experience with dam instrumentation and data evaluation.
- To foster the ability to design and implement effective dam safety management strategies.
- Participants will obtain skills in data collection, management, and evaluation for informed decision-making

Integrating performance monitoring into dam safety programs effectively identifies and mitigates risks, ensuring structural integrity and operational efficiency.

COURSE OUTLINE

The course combines theoretical knowledge with practical applications through interaction with experienced specialists.

The course platform intends to blend African and international experiences and perspectives.

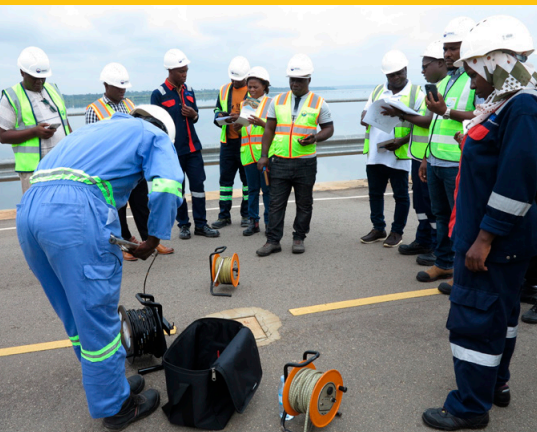
- Online pre-course workshop
 - Introduction to Dams
 - Dam Safety Assignment
- A one week in-person session in Ghana
- On site technical visits to dams, providing insights into practical instrumentation principles and planning
- Exercises to help the participants make their own Dam Safety Management Plans for future application to their assets.

Monitor, Understand, Protect
Safeguarding Dams with Data

TARGET GROUP

This course is tailored for experienced professionals in the renewable energy sector or those involved in the management and operation of multipurpose dams. Ideal for dam operators, owners, managers, surveillance engineers, engineers working in water resources planning, and professionals from both the public and private sectors involved in dam operation and management responsibilities.

It seeks to enhance the capabilities of engineers, safety managers, and technical staff who are committed to advancing dam safety standards within the continent.



Women are encouraged to apply.

SPECIFICS FOR THE COURSE

GENERAL

All lecturers and resource persons are well-known specialists within their field, and they have extensive international and regional experience.

Attending the courses is an opportunity to discuss and learn about current issues related to hydropower and other renewables together with professionals from the continent and abroad.

Participants are encouraged to bring along information that can be shared about pending Dam Safety issues of your interest.

Admission Requirements:

- A minimum of about 5 years of relevant professional experience in renewable energy or with multipurpose dams.
- Basic understanding of dam safety fundamentals, renewable energy concepts and their role in sustainable development.
- Applicants should hold an applicable degree or possess relevant background knowledge.
- Proficiency in English is compulsory for this course.
- A commitment to implementing learned skills and knowledge in their respective workplaces is essential.

Notice of admission will be given shortly after the application closing date.

Applicants **MUST** diligently complete the application form before submission
The application form can be accessed at the ICH website – **www.ich.no**

* Please ensure your completed application is received no later than the given deadline

ICH reserves the right to accept or reject any applicant based on their qualifications and experience.

SPECIFICS FOR THE COURSE

Information on travel, a detailed course program and other relevant information will be sent to all participants in due course.

Participants are expected to arrive at the venue of the course the day prior to the course start and leave no earlier than the day after the end of the course.

COURSE FEES

The course fee includes lectures, materials, accommodation, meals, and a social program if applicable. International travel expenses are not included.

There is a reduced fee for ICH members.

A limited number of sponsored seats are available for participants from countries prioritized by NORAD (Norwegian Agency for Development Cooperation).

Those who would like a guaranteed seat on the course should secure their own funding.

MORE INFORMATION

Information on other courses can also be found on our website; **www.ich.no** or by contacting **carole@ich.no**



International Centre for Hydropower
S P Andersens veg 7, N-703 | Trondheim, Norway

Stay connected to us:



International Centre for Hydropower – ICH



International Centre for Hydropower

CONTACT;

Carole Rosenlund, Regional Director – AFRICA

carole@ich.no

www.ich.no

