



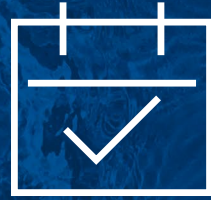
# **AFRICA**

# **COURSE PORTFOLIO**

## **2023**







**Schedule your agenda**



# ICH Course Portfolio – Africa 2023

## Planned courses:



- Instrumentation & Monitoring for Dam Safety – *Uganda, 20-24 March*
- Social Impact Assessment and Resettlement Management in Renewable Energy Projects – *Ghana, 8-12 May*
- Revenue Protection and Infrastructure Security in Electricity Utilities  
*TID rollover and transition solutions – Prospects for ‘Quick Win Solutions’  
Eswatini, 12th–16th June*
- Reservoir Sediment Management for Sustainable Hydropower in Africa  
*Zambia, 8-17 November (10 Days)*
- Financial Modelling, Project Management & Power Purchase Agreement –  
*S. Africa*
- Operation and Maintenance – *Module II – Mozambique*
- Regional Power Market – *Grid & Market Integration - S. Africa*
- Energy Sector Governance for High Level Management - *Kenya*

# ICH Tailor Made Courses - Africa 2023

- Francis Turbine - Condition Monitoring and Maintenance Planning  
*Uganda, 6-10 March*
- Reliability Centred Maintenance  
*Uganda*
- HSSE - Health, Safety, Security & Environment  
*Uganda*
- Asset Management and its application to hydropower – *Tanzania*
- Secondment programs





# Instrumentation & Monitoring for Dam Safety – Module II

## *Uganda, 20-24 March*



### OVERVIEW

Focused on the development and implementation of dam safety instrumentation & monitoring programs as well as data evaluation & reporting.

### OBJECTIVES

Provided participants with in-depth practical examples of instrumentation for dam safety monitoring, key elements involved in designing and managing these programs, whilst offering tools for effective inspection, monitoring, risk assessment, operation, and maintenance of dams.

To build and strengthen participants' understanding of the key elements involved in designing, implementing, and managing effective dam safety programs.

### TARGET GROUP – 2020/2021 Module-I Participants

Dam operators & owners, managers and field level experts, dam surveillance engineers, executives of power companies, ministries, water resource and energy agencies, and relevant private sector enterprises with dam operation and management responsibility.

**UGANDA** - March 20-24, 2023 ( 1 week)



# Social Impact Assessment and Resettlement Management in Renewable Energy Projects - *Ghana, 8-12 May*



## OVERVIEW

Based on international standards of practice, the course instructs on essential processes, acceptable techniques for baseline data collection and analysis, communication, mitigation, and enhancement measures that are elemental to assuring representativeness, fairness and sustainable well-being of affected communities and other concerned stakeholders.

The course draws from both African and international examples.

## OBJECTIVES

Insights into the footprint hydropower projects can impart on the surrounding/displaced communities.

Further participants knowledge on best practices and practical safeguards that will ensure positive outcomes and reduces impacts on both the communities and their surroundings.

## TARGET GROUP – 2020/2021 Module-I Participants

Utility executives & personnel, Ministries, Authorities, NGO's, relevant private enterprises, and others working with development of water resources requiring structured knowledge of the ESIA process.

**GHANA** – May 8-12, 2023 (1 week)



**Social Impact Assessment and Resettlement Management in Renewable Energy Projects – AFRICA**

Learn from global best practices and gain insights into sociological contexts to make informed decisions that ensure successful project outcomes.

**Ghana, 8 – 12 May, 2023**

Join us to improve your perspectives on social impacts and resettlement issues associated with RE installations.

[www.ich.no](http://www.ich.no)

**Application deadline; 6 March 2023  
APPLY NOW!!!**



Gaining through Training



# Revenue Protection and Infrastructure Security in Electricity Utilities – Eswatini, 12th–16th June



## *TID rollover and transition solutions – Prospects for 'Quick Win Solutions'*



### Revenue Protection and Infrastructure Security in Electricity Utilities

TID rollover and transition solutions – Prospects for 'Quick Win Solutions'

12<sup>th</sup>–16<sup>th</sup> June 2023, Tanzania

Ordinary Course Fee: US\$ 1000,-  
ICH Members' Course Fee: US\$ 900,-

Application Deadline: 31<sup>st</sup> March 2023



Gaining through Training

## OVERVIEW

As the global TID countdown already begun, this training focuses on how utilities should prepare for the prepaid meter TID rollover.

The course looks at the prospects for 'quick win solutions' in Revenue Protection and Infrastructure Security in electricity utilities with special focus on critical infrastructure protection, smart meter technology, how utilities can leverage on customer experience to reduce revenue losses, data analytics and other tools to guard against revenue losses.

## OBJECTIVES

The main objectives of this training are to help participants:

- understand power system loss components to contribute to improvement of the overall efficiency of the power distribution sector
- identify threats and vulnerabilities in critical electricity infrastructure to protect the electricity grid from cyber threats
- analyse security measures with smart meters to determine electricity theft
- understand how Policies, Regulation and Legislation can be a contributing factor in reducing revenue losses
- appreciate the significance of the TID rollover and how best to transition
- create a great customer care strategy and ways to improve customer experience

## TARGET GROUP

Professionals involved in day-to-day operations involving processes that impact revenue losses and are seeking to gain a strategic overview of the concepts of Revenue Protection and Infrastructure Security, alongside practical tips and advice for planning and developing revenue protection solutions.

**ESWATINI**, 12th–16th June 2023 (1 week)



# Reservoir Sediment Management for Sustainable Hydropower in Africa - *Zambia, 8-17 November (10 Days)*



## OVERVIEW

A practical hands-on training that will include comprehensive technical site visits performing physical measurements of sediment and modelling approaches for the estimation of sediment in water bodies.

## OBJECTIVES

This ICH training will contribute to the ongoing efforts of mitigating the sedimentation problems of reservoirs for more sustainable uses by exploring and disseminating practical methods and strategies that are viable to apply in handling sediments in a more eco-nomically, technically and environmentally feasible way.

Participants will learn practical cost-effective, innovative, technical solutions to reservoir sedimentation for optimum benefits of the water resources in Africa.

## TARGET GROUP – 2020/2021 Module-I Participants

Reservoir operators, government water resource and energy agencies, reservoir owners, utility managers and field level experts.

Executives of power companies, ministries, and relevant private sector enterprises with reservoir operation and management responsibility will benefit from this course. The course will also be of value to engineers working in water resources planning and multipurpose projects.

**ZAMBIA – 8-17 November 2023 ( 10 Days)**





# Financial Modelling, Project Management & Power Purchase Agreement – *South Africa*



## OVERVIEW

The course will feature intensive hands-on approaches and participants will be equipped with the fundamentals and best practice for modelling the essential components in Renewable Energy deals and project management. PPA structuring, investment analysis and operational scenario evaluation including risk assessment and the main terms and strategy for negotiation of PPAs will be featured.

Participants will work on comprehensive practical applications of financial modelling skills to real life case studies in Africa's Power sector. This will strongly support the development of finance knowledge and its application to business problems and decision making.

## OBJECTIVES

To build workforce and institutional capacity in Africa for well formulated financial models and PPAs that are reflective of key business assumptions and applicable to test scenarios useful for predicting potential financial outcomes.

## TARGET GROUP

Energy investors, Executives, Economists, Financial Analysts, Legal Advisors, and those who are involved in the sector financial forecasting models and PPAs

**SOUTH AFRICA** – Dates to be confirmed (3 weeks hybrid course)

# Operations & Maintenance of Hydropower Facilities, Module II - *Mozambique*



## OVERVIEW

This module will focus on practical guidance for preparing an O & M strategy and implementation of comprehensive operating programs and procedures. The aim is to improve efficiency and reliability of hydropower by considering the full life cycle of a hydropower plant, from project design, construction, commissioning, operation, and refurbishment to end-of-life.

## OBJECTIVES

To facilitate participants with the capacity to identify performance indicators that support the maintenance decision-making process.

## TARGET GROUP – 2020/2021 Module-I Participants

Engineers and technicians with experience from hydropower plants in Africa, Technical staff, Management and those engaged in planning, implementation, and follow-up on maintenance activities.

## MOZAMBIQUE – Dates to be confirmed (1 week)





# Regional Power Market - Grid and Market Integration (Hydropower and other Renewables) – South Africa



## OVERVIEW

This course will focus on national and regional conditions primarily in Southern and Eastern Africa in view of future interconnection enabling the coupling of Eastern and Southern Africa and the increased pace of introducing both RES and competitive markets in those regions.

Focusing on the integration of RES in both the grid and different competitive markets, the course will provide an overview of both challenges, solutions, and practical modelling examples as to how these can be done.

## OBJECTIVES

Provide participants with the insights on how to evaluate renewable energy offerings, balance PPA obligations whilst maintaining grid stability.

## TARGET GROUP

Energy Regulators from the region, Executives and Traders of power companies, Lawyers, Energy sector investors and developers, National system operator(s), EAPP/SAPP/WAPP members representing the regional power exchange, relevant private sector enterprises.

**SOUTH AFRICA** – Dates to be confirmed. 2023 ( 1 week)

# Energy Sector Governance for High Level Management - Kenya



## OVERVIEW

Improving governance is critical for working towards a fair, sustainable, and better performing electricity sector. By approaching the social, environmental, and economic challenges confronting the electricity sector through questions of governance, these issues can be addressed from the root of their causes

The course will strongly focus on the key elements of good governance: public participation, transparency, accountability and capacity, and the extent to which they are practiced in electricity policy and regulation.

Policy and regulatory processes that affect environmental and social concerns will be firmly emphasised

## OBJECTIVES

This training will enhance participants understanding of electricity sector governance and build the capacity of institutions and civil society to implement good governance.

Through the knowledge gained on this course, participants will be well equipped and able to translate this into practice, tailoring it to local needs.

## TARGET GROUP

High level management, civil society, policymakers, regulators, and other electricity sector actors actively promoting the open, transparent, and accountable decision-making processes that are a necessary part of a socially and environmentally sustainable energy future

**KENYA** – Dates to be confirmed 2023 ( 1 week)





# CONTACT

For more information please contact

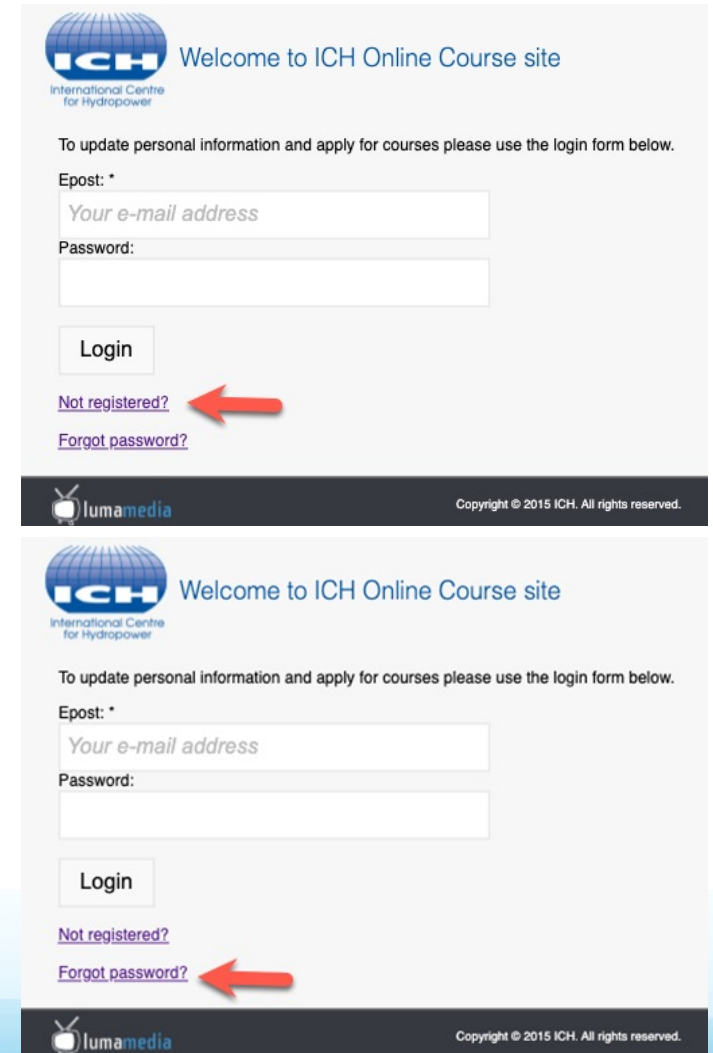
[Carole Rosenlund, Head of Africa](#)

E-mail: [carole@ich.no](mailto:carole@ich.no)

# How to apply?

## Course portal

- **Account registration:** Needs a valid email address & password.  
Minimum 6 characters & at least 1 alphabet & 1 number.
  - Recommend to use a permanent email address that would not need to be changed in the event of employment change.
  - Changing email addresses implies having multiple accounts
- **Account activation:** After registration, check your mailbox (even spam folder) for email with verification link. Please click the link to active your account.
- **Reset password:** Please click “Forgot password?” link in login page. Fill in your email address & a reset confirmation email will be sent to you. Follow the link in the email to reset password.



ICH International Centre for Hydropower

Welcome to ICH Online Course site

To update personal information and apply for courses please use the login form below.

Epost: \*

Password:

Login

[Not registered?](#)

[Forgot password?](#)

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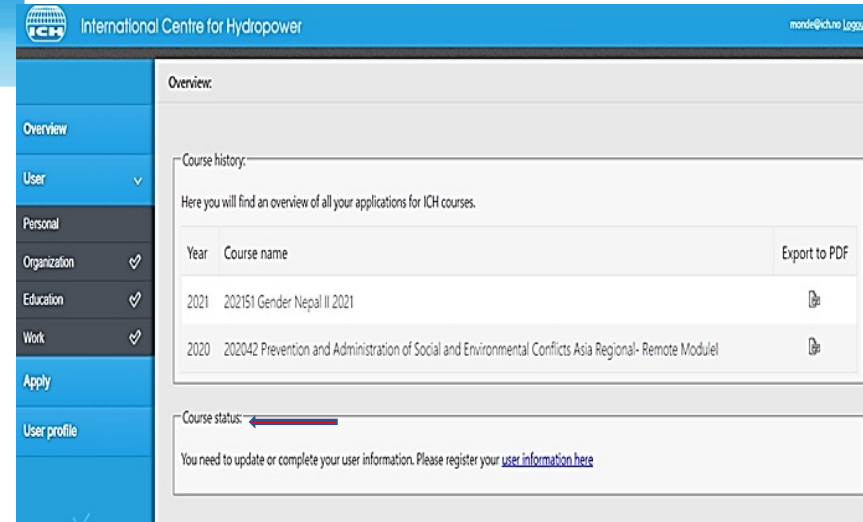
[Forgot password?](#)

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## Applying for a course

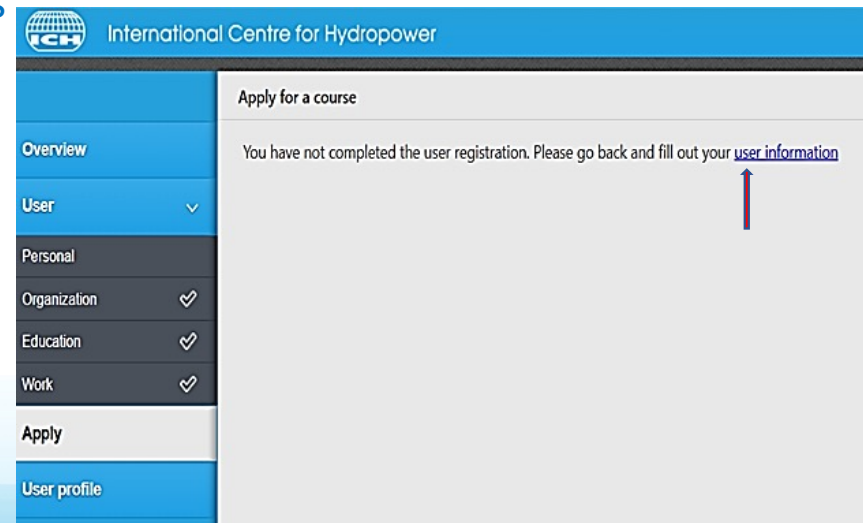
- Comprehensive information requested is very important
  - In our selection process
  - After the courses during reporting to our partners & funders
- Kindly ensure to diligently fill in all required information
  - When you log in, update your profile by going to “Course Status”
  - Or when you click on Apply, follow the process of updating that comes when you click on “User Information”



The screenshot shows the 'International Centre for Hydropower' user interface. The left sidebar contains a menu with 'Overview', 'User' (selected), 'Personal', 'Organization', 'Education', 'Work', 'Apply', 'User profile', and 'User information'. The main content area is titled 'Overview' and contains a 'Course history' section. Below this, a table lists course applications:

Year	Course name	Export to PDF
2021	202151 Gender Nepal II 2021	
2020	202042 Prevention and Administration of Social and Environmental Conflicts Asia Regional- Remote Module1	

Below the table, the 'Course status' section shows a progress bar and a message: 'You need to update or complete your user information. Please register your [user information here](#)'.



The screenshot shows the 'International Centre for Hydropower' user interface. The left sidebar contains a menu with 'Overview', 'User' (selected), 'Personal', 'Organization', 'Education', 'Work', 'Apply', 'User profile', and 'User information'. The main content area is titled 'Apply for a course' and contains a message: 'You have not completed the user registration. Please go back and fill out your [user information](#)'. A red arrow points to the 'user information' link.

- When ICH portal pages are not opening and you get error responses, please get in touch for assistance before you open new accounts
- It could help to check your internet/browser settings and permissions. Opening from another computer with different settings has worked for some people before.

WE'RE LOOKING FORWARD TO RECEIVING YOUR APPLICATIONS!! 😊

