



hydroaid

HYDROAID
Water for Development Management Institute

2015 DISTANCE LEARNING PROGRAM

**TECHNICAL COURSE ON
GOVERNANCE OF
URBAN WATER SUPPLY**

I edition

CALL FOR APPLICATIONS 2015

*The 2015 edition of this course is realized thanks to the financial support of
ATO3, the Water Authority of Turin*



in collaboration with:



POLITO
Politecnico di Torino



AMU
Arba Minch University



*and under the auspices of all the WATSAM Project Partners,
the Members of the Association and the Institutions in scientific and technical
partnership with Hydroaid.*

BACKGROUND

Established in Turin in 2001 as an initiative of the Italian Ministry of Foreign Affairs and Public, Financial and Academic Authorities of the Piedmont Region, **Hydroaid – Water for Development Management Institute** – is a non-profit Association entitled to operate both in Italy and abroad dedicated to pursuing objectives of solidarity, protection and improved governance of water resources through training and capacity building activities.

The mission of Hydroaid is to transfer technical knowledge on sustainable water resource management to managers and technicians from developing and emerging countries by providing them with a free school that operates also as a network interconnecting professionals in the fields of water and sanitation from all over the world. To say it with the words of a course participants, Hydroaid is “like a large office spread across the world that can activate at any time”.

Since its first steps in 2002, Hydroaid has grown a network of over 1500 former participants – specialized operators, prominent engineers and trained technicians working in more than 80 countries affected by water criticalities. Among the Associated Partners of Hydroaid are the Metropolitan City of Turin, the Municipality of Turin, Piedmont Region, the Province of Turin, SMAT, Compagnia di San Paolo and ATO3, the Water Authority of Turin. The network of Hydroaid, however, stretches beyond the Associated members, and it includes other entities and stakeholders, such as the Politecnico and the University of Turin, the Chamber of Commerce of Turin and CSI, as well as NGOs and other associations including the Center for African Studies.

The portfolio of Hydroaid includes 4 editions of the Master on Integrated Sanitation Management in Brasilia and 8 editions of the Training Program on Planning and Management of Water Resources in Turin, as well as distance learning courses on Sanitation, Waste Recycling and Planning for Sustainability in multiple languages.

This distance learning course on “Urban Water Supply” is realized with the financial support of **ATO3** – the Water Authority of Turin – an Associated Member of Hydroaid. ATO3 was established in 1997 and since 2000 it is responsible for the coordination of the integrated water services in the Province of Turin with the tasks of setting supply targets for the water demand, defining structural, organization and financial management plans for the governance of the service, monitoring the realization of the service and identifying suitable areas for water stock and supply.

Both organizations strive to improve the quality and efficiency of the water and sanitation services and to bring a concrete contribution to the promotion of sustainable development processes. An additional synergy supporting this initiative is the consolidated cooperation experience with Ethiopia, whose most recent initiatives include the EU funded **WATSAM Project FED/2011/279-318** “Support to Arba Minch Town water utility and Municipality in the water & sanitation sector through capacity building and partnership development with Italian water organizations”. WATSAM is a 3-year project led by Hydroaid and featuring the **Politecnico di Torino**, one of the leading technical universities in Italy, as a Supporting Partner. Among the activities of the Project were training and capacity building addressed to local managers and technicians who will be responsible for implementing improved water resource governance. The Project also aimed at developing partnerships between Ethiopian and Italian entities, a goal that has found its first application in the signature of a memorandum of understanding between the Arba Minch University (a Supporting Partner of WATSAM) and the Politecnico di Torino, one of the Italian leading technical universities, followed by the signature of a Technical Agreement of cooperation

between Hydroaid and the Ethiopian ministry of Water, Irrigation and Energy on July 9th in Addis Ababa.

DESCRIPTION OF THE COURSE

“Urban Water Supply” is a distance learning course accessible through the web platform Moodle and it is addressed to managers and technicians operating in the water sector in Ethiopia, drawing from the experience of Arba Minch, in synergy with the WATSAM Project, which is about to be concluded.

GOALS

The technical course on “Governance of urban water supply” aims to provide managers and technicians operating in the field of water supply in Arba Minch, the target area of the WATSAM Project, and in Ethiopia at large with a tangible contribution to the process of sustainable development. The course is designed to transfer theoretical and practical technical tools for the planning and management of water supply systems in urban contexts.

Drawing from the experience of the WATSAM Project, the contents address different aspects of the water supply governance with the goal of reinforcing the local integrated water cycle as per the programmed guidelines at national, regional and local level (PRSP-Poverty Reduction Strategy Paper, SDPRP-Sustainable Development Poverty Reduction Program, and the Water Supply and Sanitation Policy), where water supply governance is a fundamental element for an integrated approach to water services and it relies on the strengthening of the managerial skills of the local operators.

Finally, the course intends to follow-up the capacity building process initiated by the WATSAM Project, in collaboration with the **University of Arba Minch**, one of the Supporting Partners of the Project.

ADMISSION

Application is mandatory. The course is open to a **limited number of 80 participants**. This restriction ensures personalized tutoring and the effective realization of team works during the course. See below for the application procedure.

FEE

The participation to the course is **free of charge** and it is meant as a tool for providing a concrete support in pursuing sustainable development processes.

LANGUAGE

All didactic materials will be available in English. All technical communications and assistance will be held in English too. Therefore **a good knowledge of English language is a compulsory requirement for the attendance of this course.**

DURATION

The course duration is 10 weeks and it will be delivered in period October – December 2015. A detailed calendar and the official starting date will be announced in September.

CONTENTS

The didactic material, designed in scientific and technical partnership with some of the leading Italian organizations in the field of sanitation and environment, also aims at optimizing the technical skills of local operators, strengthening the managerial capacities of the local administration and consolidating the scientific partnership with the Arba Minch University, a supporting partner of WATSAM.

With this course Hydroaid wishes to offer to the participants updated technical information and knowledge instruments in order to improve the management of their resources and to contribute to raise the quality of their services.

The course provides an introduction to the characterization of water supply systems and notions on their planning and management for an effective governance of water resources. Starting from the procedures for setting goals, the contents will go through intervention measures, program implementation and monitoring of the effects achieved. Following this introductory overview, the course will turn to topics related to the design of networks and the management aspects.

In particular the course intends to deal with technical requirements for a correct sizing, management and development of a water supply system. The applicants will learn how:

- to define the main aspects of a plan for water resources
- to implement procedures to review and update the plan
- to estimate water requirements
- to determine the capacity of water systems using effective population and capacity factors
- to incorporate hydraulics considerations in the water supply system planning and design process
- to collect water from groundwater and surface water sources
- to design simple and complex water supply systems
- to select the parameters for a good design of the system
- to identify the main organizational and management issues of a network for the distribution of drinking water

STRUCTURE AND ORGANIZATION

The subjects are divided into different lecture **units**, each focused on a specific topic, as detailed below. Each unit contains essential information that addresses the key concepts and issues, examples and study cases. In addition, further readings provide more detailed technical or theoretical information on some selected matters. Units will become available according to a programmed schedule announced in the beginning of the course in order to allow time for studying the material and participating in all the required activities.

All the resources mentioned can be downloaded from the web platform and used in compliance with the copyright conditions explained in the application form.

In addition to the didactic material, the course features a number of activities for evaluating the understanding of the contents and the attendance of the participants. These include

- **Exercises:** multiple choice quizzes and written assignments (brief compositions);
- **Forums:** forum discussions are designed as an extension of the learning program to produce a useful and interactive environment for debating the topics of the course, exchanging information and sharing experiences. An assistance forum and technical guides will be also available on the platform to facilitate the use of all the functions;

Tutors will be available and online on the web platform to monitor the activities, support the participants in the learning process and provide technical assistance. The web platform can also be used for individual communications with fellow participants and teachers.

E-LEARNING FORMAT

The course is delivered on Hydroaid distance learning platform – www.ehydroaid.org. Distance learning is a training format adopted by Hydroaid since 2009 as an integration of its on-site training

activities with the aim of expanding the number of participants and facilitating opportunities for discussion and analysis within a large international learning context.

The platform employed by Hydroaid is a user-friendly tool that can be easily accessed and offers several options for interaction. A guide for technical assistance – with step-by-step instructions on how to navigate and use the platform – will be provided after admission and remote support will be available for the whole duration of the course.

An essential feature of the e-learning format of this course is tutoring, which will be realized by:

I level tutors from Hydroaid and the Arba Minch University

- Facilitating interactions, moderating forums
- Collecting inputs, requests and feedbacks to deliver to II level tutors

II level tutors from the Politecnico di Torino

- Answering technical questions on the contents of the course
- Integrating lecture materials and discussions with updates and clarifications

In addition to tutoring, Hydroaid will also ensure the constant monitoring of the participants' activities and the technical assistance.

MINIMUM INFORMATIC REQUIREMENTS

Before applying, please make sure that the computer you will use to attend this e-learning course matches the following minimum informatics requirements. This is a mandatory condition for the attendance of the course.

Internet connection

An Internet connection of at least 56kb is necessary for accessing the learning platform.

Hardware requirements

Operating system: compatibility is ensured with all the main operating systems, including Windows, Linux and Macintosh.

Browser: compatibility is ensured with: Internet Explorer 6 or superior, Mozilla Firefox 3 or superior, and Chrome. We recommend the use of Mozilla Firefox, which is compatible with all the main Operating Systems and ensures an ideal performance at navigating the platform. Mozilla Firefox can be downloaded for free at the link: www.mozilla.org/it/firefox/new

Video resolution: 1024x768

Software Requirements

For the correct display of the contents of the course area, Adobe Acrobat must be installed. Adobe Acrobat can be downloaded for free at the link: <https://get.adobe.com/reader>

HOW TO APPLY

Applications for this course will be open from **5 August 2015 to 6 September 2015**.

To apply for this course please send the following documents to the e-mail address: tutor.sanitation@hydroaid.it

1. **Application form:** filled and signed. The application form can be downloaded from www.hydroaid.org
2. **Copy of your ID card or passport**
3. **Copy of your highest education certificate**

Only complete applications will qualify for the selection process. A confirmation of acknowledgement of your application will follow within 5 working days. Applications sent by other means will not be considered.

The candidates admitted to the course will be contacted by **14 September 2015**.

Final deadline for submission: 6 September 2015

SELECTION CRITERIA

The applicants who cannot guarantee the minimum requirements of the course described above (computer access, Internet connection, knowledge of English language) will not be considered. The applicants who qualify for the selection and submit a complete application before the deadline will be evaluated on the basis of merit criteria.

Women's applications are welcome and will be taken into due consideration.

The applications of the participants who abandoned previous distance learning courses will be not considered.

CERTIFICATE OF ATTENDANCE

A digital certificate of attendance, signed by the course teachers, will be issued at the end of the course for the participants who score a **final grade** of at least **70%** and sent via e-mail.

The final grade is composed by the following requirements:

- **Attendance:** at least 80% lecture material accessed (viewed or downloaded)
- **Grade:** at least 60% score in the exercises (quizzes and assignments) submitted on time
- **Participation:** at least 3 posts in the thematic forum

NOTE

We ask for a serious commitment when enrolling the course so that your participation does not exclude the one of another potential candidate. Please evaluate carefully your interest and your availability to attend the on line activities (time, requirements, etc).

For further information, please contact:

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Website: www.hydroaid.org

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tutor.sanitation@hydroaid.it (for enquiries and information on this course)

For the submission of the documents use tutor.sanitation@hydroaid.it

