



**HYDROAID**  
**Water for Development Management Institute**

**DISTANCE LEARNING PROGRAM**

**Course on**

**CLIMATE CHANGE AND WATER**

**2021 edition**

**Call for applications**

*This edition of distance learning course on “Climate Change and Water” is realized by Hydroaid and under the auspices of all the Members, the Institutions in scientific and technical partnership with Association*



## INTRODUCTION

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 development activities.

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

In its years of activity, Hydroaid has grown a network of over 5 000 former participants – specialized operators, prominent engineers and trained technicians working in more than 80 countries affected by water criticalities. Thanks to its composition, Hydroaid operates as a platform of action with a highly integrated profile and varied approaches for the different levels of governance: urban, regional, national and international. Among the Associated Partners of Hydroaid are the Metropolitan City of Turin, the Municipality of Turin, Piedmont Region, SMAT, ATO3 (the local water authority of Turin), Hydrodata, Ai Engineering and Politecnico di Torino.

A number of specialized academic, administrative and technical institutions then collaborate to the training activities promoted by Hydroaid.

To date, the portfolio of Hydroaid includes:

- 4 editions of the Master on Integrated Sanitation Management in Brasilia
- 8 editions of the Training Program on Planning and Management of Water Resources in Turin
- different on-site tailored training in Burkina Faso, Benin and Ethiopia
- as well as a Distance Learning Program with modules on Waste Recycling, Planning for Sustainability, Wastewater Treatment, Management of Urban Solid Waste, Urban Water, Supply Systems, Rural Water Supply Systems, Economic Regulation of Water Services, Climate Change, Territorial Governance and Water Governance.

## DESCRIPTION OF THE COURSE

### Beneficiaries

This distance learning program, accessible through the web platform “Moodle”, is addressed to managers, decision makers and technicians from local authorities and civil society organisations who hold positions of responsibility in the fields of governance, environmental public services and water.

The target countries are francophone and anglophone African countries and also developing and emerging countries from other continents.

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.



### Fee

The participation to the module is **free of charge**.

### Schedule

**The course will take place from 10<sup>th</sup> May 2021.** Hereafter is an indicative schedule, to be confirmed at the end of selection process. Prior to the start of the didactic activities, admitted participants will also receive a detailed calendar with indication of all deadlines for the submission of their works.

Activity	Date
Submission of applications	22 <sup>nd</sup> March – 25 <sup>th</sup> April 2021
Selection process	26 <sup>th</sup> April– 5 <sup>th</sup> May 2021
Communications to admitted candidates	6 <sup>th</sup> – 9 <sup>th</sup> May 2021
Familiarization week	10 <sup>th</sup> – 16 <sup>th</sup> May 2021
Didactic units (3 weeks)	17 <sup>th</sup> May – 6 <sup>th</sup> June 2021
Final Work	07 <sup>th</sup> – 27 <sup>th</sup> June 2021
Conclusion of didactic activities	27 <sup>th</sup> June 2021
Evaluation and delivery of Certificates to qualified participants	28 <sup>th</sup> June– 28 <sup>th</sup> July 2021

### Language

**All didactic material will be available in English and French.** Technical communications, and assistance will be held only in **English**. Evaluation tests and works should be carried out in **English**.

### Activities

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;
- **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 are also available on the platform to facilitate the use of all the functions;
- **Final Work:** during the course participants will be assigned specific themes to be developed through individual and group work.

### Tutoring

**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 communications with fellow participants and the teachers.

In this course two level of tutoring will be activated:

- I level tutors will help participants with technical and organization issues
- II level tutors, as experts of content, will be available for answering content questions



## COURSE CONTENTS

The course consists of three e-learning units on the topics of the effects of climate change on water resources. Each training unit consists of reading and using the course materials and the documentary resources provided.

The objective of this course is to provide basic knowledge about technical and scientific aspects of climate system functioning, disturbances and impacts on water resources.

It consists, primarily, in introducing relevant definitions and concepts concerning climate and its variations, the natural and anthropogenic factors responsible of its environmental, social, economic changes and impacts. It also provides an analysis of climate variability and possible future scenarios.

Finally, this course proposes the study of the formulation of possible mitigation actions, at the global level scale (through international agreements), and adaptation, at the local level (through strategic plans and measures), in order to reach sustainable development objectives and to protect fundamental human rights.

## Units

The contents are divided into Didactic Units, each focused on a specific topic and containing the following elements:

- **Lecture material:** compulsory readings on the main Unit topic
- **Further reading:** optional materials on additional issues connected to the Unit topic
- **Exercise:** a quiz or assignment testing the understanding of the Unit contents

A list of references, including useful links and sources, is provided at the end of each unit for further assistance.

The following Units compose this course:

- Unit 1: Climate Change: definitions and fundamental principles
- Unit 2: Climate Change and water
- Unit 3: Mitigation and adaptation strategies

## Calendar

Units will become available according to a calendar announced at the beginning of the course in order to allow enough time for studying the material and participating in all the required activities (thematic forums, quizzes and assignments).

## Copyright

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




## **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 56kbps is necessary for accessing the learning platform.

### **Hardware requirements**

Operating system: compatibility is ensured with all the main operating systems, including Windows, Linux, Macintosh, Android and IOS. For use of tablets and smart-phone it is necessary to download the Moodle App 

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: <https://www.mozilla.org/it/firefox/new/>

Video resolution: 1024x768 (or superior)

### **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 considered until **April, Sunday 25, 2021**.

To apply for this course please fill and send the **Application form**, using the online module ([CLICK HERE](#)). In addition, you must send the following mandatory documents to [tutor.sanitation@hydroaid.it](mailto:tutor.sanitation@hydroaid.it) :

1. **Copy of your ID card or passport**
2. **Copy of your highest education certificate**
3. **Updated Curriculum Vitae**

Only complete applications (application form + mandatory documents) will qualify for the selection process. A confirmation of acknowledgement of your application will follow. Applications sent by other means will not be considered. All candidates will be informed about the results of the selection.

**The final deadline for applying is April, Sunday 25, 2021.**



## SELECTION CRITERIA

The applicants who cannot guarantee the minimum requirements of the course described above (computer access, Internet connection, good knowledge of English) 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.

Hydroaid will inform the candidates as the selection procedure is completed.

The selection committee will consider the following elements as preferences criteria:

- at least first level degree in economics and management, human and social sciences, political and legal sciences, environmental management, engineering management, business administration or similar
- other relevant degrees, recognized as equivalents;
- current position in governance and management of environmental services, water and sanitation, community organizations, civil society or similar;
- relevant previous professional experiences;
- motivation: reasons, projects and/or perspectives for applying to this training.

## CERTIFICATE OF ATTENDANCE AND EVALUATION CRITERIA

A Certificate of Attendance, signed by the course teachers, will be issued at the end of the course for the participants who achieve a total score of **at least 60%**.

The final score is composed by the performance of each participant in the **4 components** of the course (*attendance, merit, participation and final work*). Points are assigned to performances above the minimum requirements, as detailed in the table below:

Requirements	Requirements for maximum grade	
Course components	Performance	Equivalent to
<b>Attendance</b> <i>Download/visualization of lecture material</i>	3/3 units	5%
<b>Merit</b> <i>Average final grade in all the exercises (quizzes)</i>	Grade 100/100	60%
<b>Participation</b> <i>Relevant forum posts in the thematic forums</i>	10 posts	10%
<b>Final work</b> <i>Realization of an individual and group work</i>	Grade 100/100	25%
<b>Total score</b>	<b>100%</b>	

Certificates will be sent via e-mail and will contain a brief description of the course and the total amount of hours required for its attendance.



## **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).*

## **CONTACTS**

For further information, please contact:

E-mail: [tutor.sanitation@hydroaid.it](mailto:tutor.sanitation@hydroaid.it) (to submit applications and for information on the selection procedure)

Phone: + 39 011 01134600

Website: [www.hydroaid.org](http://www.hydroaid.org)

[Connect with our network](#) to stay in touch with candidates, course participants, teachers and other professionals, and for more information.

