

HYDROAID 2010 – DISTANCE LEARNING PROGRAMME ON SANITATION

TECHNICAL COURSE ON URBAN WASTE RECYCLING

CALL FOR APPLICATION

The 1st edition of the course Urban Waste Recycling –Distance Learning Programme on Sanitation 2010- is realized thanking the financial support of IILA and of the Members of the Association. The course is designed in scientific- technical partnership with the Academic and Technical Members of Hydroaid plus the leading Italian Authorities in environmental resources governance :



IILA- Istituto Italo Latino Americano



AiAT, the Association of Environmental and Planning Engineers



ATOR, the Turin optimal district for the governance of waste



Amiat, the waste utility of the Turin area



Province of Turin



Piedmont Council



Smat Group, the water utility of Turin area



Federambiente, the association of all the Italian private and public institutions working for the environment



Politechnic of Turin



Ente acque della Sardegna



Università degli Studi di Torino



University of Sassari

BACKGROUND

Established in Turin in 2001, Hydroaid is a non-profit association which involves local and regional authorities, renowned banks and academic institutions of Italy, and is co-financed by the Italian Ministry of Foreign Affairs.

Hydroaid's main objective is training engineers and managers of emerging and/or developing countries in the management of the urban water resources and sanitation services, in order to safeguard environmental sustainability.

In 9 years of activity, approximately 700 participants from 57 different countries have graduated in Hydroaid training programs, including the four editions of the master in Brasilia and the eight edition of the course in Turin and the first two editions of the distance learning on Sanitation.

FEATURES AND PURPOSES OF HYDROAID'S DISTANCE LEARNING PROGRAM ON SANITATION – URBAN WASTE RECYCLING

The Hydroaid's distance programme on sanitation is free of charge. It wishes to provide to the technical staff of the developing and emerging countries a tangible help to the process of sustainable development.

The distance learning programme on Sanitation is aimed at providing practical and technical tools for the management of environmental issues at urban scale. It constitutes a refresh and a technical in-depth investigation about specific topics related to sanitation issues.

The Technical course "Urban Waste Recycling" is a module of the above sanitation programme and wishes to provide the experts of the developing countries with updated technical and managerial information on the urban waste recycling. It counts moreover on the scientific and technical partnership with some of the leading Italian institution and association working in the field of sanitation and environment.

The Urban Waste Recycling distance course will be delivered by Hydroaid on:

October 4th through December 17th 2010

The Urban Waste Recycling course is open to 80 professionals from Latin America, Africa, Middle East, Asia and the Balkans.

The didactic material is in English, Portuguese and Spanish while the official language of the didactic management on the platform is English.

The participation is recommended to high rank technicians employed in the *waste local utilities*, and in the *Governmental/Public environmental departments*.

Technical university degree is recommended to participate this course.

Women's applications are taken in due consideration.

Former students to the Hydroaid's course in Turin; to the distance learning "Technical Course on wastewater treatment and urban waste disposal" editions 2009 and 2010; to the distance learning "Gestao Integrada em Saneamento: Experiencia Italiana" edition 2009 are recommended to participate **only** if their job duties deal with the solid waste issue. This distance learning is in fact an in-depth course.

A tutor will be available on the on-line delivering platform to monitor the activities of all the participants and to answer your questions.

A technical assistance forum will be available on the delivering platform to provide information about the use of the platform itself.

COURSE CONTENTS

The course focuses on sustainable design and management of waste collection and recycling systems in urban areas.

The subjects will deal primarily with the most common management tools as well as Italian, European and international regulations, policies and agreements. The course will also cover some technical and organization issues.

Case studies regarding low-income countries will be presented.

The subjects of the course are divided into different pedagogic units, each focused on one specific topic, as detailed below. Every unit contains essential theoretical information, operating diagrams, practical descriptions and images with reference to real case studies, applicative solved examples to exercise your own design skills.

Didactic material is available for all the users who will apply to the course after the selection: it can be downloaded and used in compliance with the copyright conditions.

Subject 1: General aspects, international standards and agreements

The subject describes some important features related to the solid waste collection and recycling in Italy and around the world. An overview on European and Italian legal framework is presented, as well as the main key elements about Kyoto Protocol.

Subject 2: Life Cycle Assessment (LCA)

The subject is an overview about LCA starting from the basics elements and then providing a detailed explanation of each stage of LCA. Practical examples and a case study are used throughout to demonstrate how the methodology is applied to the waste management. The topics covered in the subject include:

- definitions, scopes and basic methodology;
- case study: LCA applied to the waste management.

Subject 3: Waste collection systems

The subject describes selected technical and organisational criteria to be applied to waste collection systems in urban areas. Case studies regarding low-income countries and informal collection systems are presented.

The topics covered in the subject include:

- overview about collection systems;

- organisation of waste collection;
- separate collection in Italy;
- separate collection in developing countries.

Subject 4: The management of the recyclable wastes

The subject describes the management of recyclable wastes worldwide, including informal systems found in some low-income countries. Key technical elements on scraps processing are presented. The topics covered in the subject include the main scraps, as for example:

- paper and cardboard scraps;
- ferrous scraps;
- non-ferrous scraps;
- plastic scraps.

Subject 5: Material recovery facilities

The subject focuses on the key features of separation, processing and storing facilities of recyclable materials to be later used as raw materials. The topics covered in the subject include:

- dirty recovery facilities for non-separated wastes;
- clean recovery facilities for commingled materials separated at the source;
- biological treatments.

Subject 6: Secondary raw materials employment

The subject describes the main uses of the secondary raw materials, as for example, paper and cardboard, metals and plastics.

MINIMUM TECHNOLOGICAL REQUIREMENTS

Before starting to fill the application form, **you must make sure that the PC you will use to attend to this E-learning course has the following minimum requirements. This is a mandatory condition for the attendance to the course.**

Internet connection

A necessary requirement for the attendance to the course is the availability of a PC, with Internet connection (at least 56 kb).

Hardware requirements

Operating system

The E-learning platform used for the delivery of the training program “Integrated Management of Sanitation” is multi-platform, which requires from the user the availability of a browser. Compatibility is ensured with all the main operating systems such as: Windows, Linux and Macintosh.

Browser

Compatibility is ensured with:

- Internet Explorer 6 or superior
- Mozilla Firefox 3 or superior

We recommend the use of Mozilla Firefox, which results to be optimum for access and surfing through the system. Firefox can be downloaded free of charge from the web and is compatible to all the main Operating Systems.

You can download Firefox from this link: <http://www.mozilla-europe.org/it/firefox/>

Video resolution

1024x768

Software Requirements

The access to the E-learning platform does require the installation of any additional plug-in.

For the correct display of the contents of the course area, the following plug-ins are to be downloaded, if not present:

- Adobe Acrobat to consult the material in PDF format.

Adobe Acrobat can be downloaded from this link: <http://get.adobe.com/it/reader/>

HOW TO APPLY

Link to: <http://www.hydroaid.it/Elearning/Elearning.cfm>.

Applications are open on July 1st through July the 20th 2010

It is mandatory to fill the on-line application form

Strictly follow the on-line instructions and fill the application form carefully.

Before starting to fill the application form, you must verify that the PC you will use to attend this course has all the minimum necessary requirements explained in the previous paragraph.

Before filling the application form, you must **scan** the following documents (choose to create pdf or jpg files):

- Identity document (only if you are NOT a former participant to Hydroaid courses - mandatory)
- Copy of the highest education certificate obtained (only if you are NOT a former participant to Hydroaid courses - mandatory).

Remember to attach these documents to the on-line application form (just follow the on-line procedure).

When the on- line application form is filled and ready:

- 1- Print a copy of it and sign it with your **hand signature** (e-signature is not allowed);
- 2- Follow the on-line instructions to automatically send the on-line application form;
- 3- Upload the required documents described above to Hydroaid on-line;

- 4- It's mandatory to send the application form with your hand signature to Hydroaid by e-mail (training@hydroaid.it) or by fax (+39-011-5693690) or by regular mail to Hydroaid, via Pomba 29, 10141 Torino, Italy.

Final deadline for submission: July the 20th 2010.

Also documents sent by regular mail must reach us no later than July the 20th 2010.

SELECTION CRITERIA

The applicants who cannot guarantee the minimum technical requirements of their PC and Internet connection explained above will not be selected because they would be prevented from regular connection and use of the didactic material.

The candidates who express interest to attend to the course and who send all the required documentation not later than July 20th 2010 shall be considered by HYDROAID:

The applicants will be selected on the basis of merit criteria (80 participants will be selected to attend to this course). The evaluation will be based on the application forms filled by the candidates, documents provided, curriculum vitae and documented experience in the waste and sanitation sector.

Top priority shall be given to those who work in public or private institutions involved in the waste management sector.

The knowledge of the English language is mandatory.

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

In case of co-winner candidates, priority will be given to:

- the successful participants to the past modules of the Hydroaid distance learning programme on sanitation 2009 and 2010
- young professionals below 40 years old;
- employees in waste management utilities and agencies in their own countries;
- professionals from least developed countries according to UN list;
- women

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

Hydroaid shall inform the candidates as soon as the selection is completed (within September 20th 2010).

CERTIFICATE OF ATTENDANCE

A certificate of attendance will be issued at the end of the course on the basis of attendance to at least 80% of the activities and of the tests results (at least a passing score of 60% on the quizzes) concerning the most significant topics dealt with in the course materials and resources.

The certificate will be sent by regular mail. For this reason it is fundamental that you provide your correct home address.

STAGES

A limited number of stages is reserved to at least 5 participants from **Sub Saharian African Countries** to the on line course. Selection will be done on the base of the CV's and the documents you will provide. Selected participants will be notified directly and personally.

The favorites stagers will be the ones employed in waste management agencies in their own countries.

Hydroaid will offer in November 2010 to the stagers 10 days of opportunities to visit sanitation plants in Italy (Turin area), to attend seminars and class lectures, to participate round tables.

Stages will be organized in partnership with Politecnico of Turin, AIAT, AMIAT, ATOR Torino, Provincia di Torino, SMAT Torino, ENAS Sardinia, University of Sassari, Federutility and others. The stage programme is co-financed by the Italian Ministry of Foreign Affairs.

NOTE

We ask for a serious commitment when enroll at the course so that your participation excludes the one of another. So please, evaluate carefully your interest and your possibilities (time, connection ability etc) to attend the on line activities.

For further information, please contact:

HYDROAID

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Phone: + 39 – 011 – 5694336, Fax: + 39 – 011 – 5693690

E-Mail : hydroaid@hydroaid.it (only for general questions).

For the submission of the documents use training@hydroaid.it

Website: www.hydroaid.it