

















FORMATION aux METIERS de l'EAU et RENFORCEMENT des COMPETENCES

TRAINING and ENHANCEMENT of SKILLS in the WATER SECTOR



Side event in the French Water Pavilion: Buffet lunch 17 March 2009 13h00-14h30





Renforcer les compétences pour mieux gérer l'eau





















FORMATION aux METIERS de l'EAU et RENFORCEMENT des COMPETENCES TRAINING and ENHANCEMENT of SKILLS in the WATER SECTOR



Laurent STEFANINI, Ambassadeur délégué à l'Environnement du Ministère des Affaires Etrangères















Eaux







FORMATION aux METIERS de l'EAU et RENFORCEMENT des COMPETENCES

TRAINING and ENHANCEMENT of SKILLS in the WATER SECTOR



Training water professionals in the southern countries, certainly, but ...

- What is the demand? Who needs it most? What form should it take?
- Who needs it most?
- What form should it take?



















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Jean-Pierre ELONG MBASSI (Cameroun), Cités et gouvernements locaux unis d'Afrique







WATER & SANITATION FOR ALL IN DEVELOPING CITIES



A big challenge for the MDGs

- More than one out two urban people lives in a developing country
- 15 out the 20 biggest cities in the world are located in the developing countries
- The medium-sized cities in the developing countries have the highest population growth rate















Some evolutions of the water utilities governance:

- Planning the drinking water and sanitation services in accordance with the city's global development plan
- Decentralizing to give more autonomy to the water utilities of each city









WATER & SANITATION FOR ALL IN DEVELOPING CITIES

For the "medium-sized" cities in developing or transitional countries, a key point: the management skills

- To extend access to these services to all
- To improve the technical, social, economic and financial sustainability of the services
- To adapt the services to the social context, by innovative management and operation





















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Yacouba KONATE (Burkina Faso), pour Projection, réseau de professionnels juniors









Le renforcement des capacités locales : Qu'est-ce que c'est selon les intéressés ?



Les constats:

Renforcement des capacités locales : une notion mal comprise sur le terrain, aux contours vagues et parfois fourre-tout.

Quand on leur demande, les acteurs de terrain hésitent ... puis évoquent surtout les formations, puis l'accompagnement

Dans la pratique : le plus souvent il s'agit de formations thématiques ponctuelles

Mais qu'en pensent les principaux intéressés ?

Projection

Réseau de Professionnels juniors

Services essentiels En milieu urbain Pays en développement

Quelles formes pour le renforcement des capacités?







Les constats et enjeux relevés sur le terrain concernant les formations ...



- Standardisation: ne correspondent pas toujours aux besoins locaux, sans application pratique et sans suivi
- Multiplication des formations : la quantité plus que la qualité ?
- Savoir/ Savoir-faire : des formations pour savoir mais pas toujours pour savoir faire ...
- « Course à la formation » : entretenue par la manne financière des per diems, recherchée par les acteurs locaux (formateurs et apprenants) et par le besoin d'en faire des bailleurs de fonds (ligne budgétaire)
- Logique de projet /de service public

Des enjeux plus larges : fuite des cerveaux, aspect « soft », etc.







Des pistes d'amélioration

Pour être efficace et avoir un impact durable, la formation ne doit pas être pensée ponctuelle mais doit s'intégrer dans une dynamique avec une phase amont préparatoire et une phase aval de suivi



Accompagnement des élus

Préparation de la formation (identification des besoins, plan de formation)

Appui sur le long terme

Formation



Recrutement et « stabilisation » des ressources humaines

Participative
Objectifs pédagogiques
de connaissances et
comportementaux
Choix du formateur

Capitalisation
des savoirs et
des outils
(localement et
pour les autres
acteurs)

Autorenforcement des capacités (mise en réseau, ...)







Local capacity building: what does it mean for the local stakeholders?



Facts:

Local capacity building is a vague concept, misunderstood on the field.

When asked, field actors first hesitate... and then associate it mostly with punctual training and long-term support.

In practice: local capacity building is reduced to short training sessions, covering one specific theme.

Projection

Network of young professionals

Water, sanitation and waste management in urban areas of developing countries

What do the municipal technical services think about this concept?

Quelles formes pour le renforcement des capacités?







Training sessions in practice : facts and challenges



- Standardized training sessions: training sessions are not properly adapted to local needs. There is a lack of practical application and there is no monitoring.
- Knowledge transfer: Training sessions proposed are rarely a skills transfer (know-how) but mostly a knowledge transfer (know).
- Number of trainings vs. quality: takeholders are often more concerned about the number of training sessions rather than about their quality.
- A race for trainings?: Are training sessions given / received for wrong reasons? (need to spend a budget line / trainees looking for per diems)
- Program approach vs. public service approach

Broader challenges: avoid brain drain, etc.

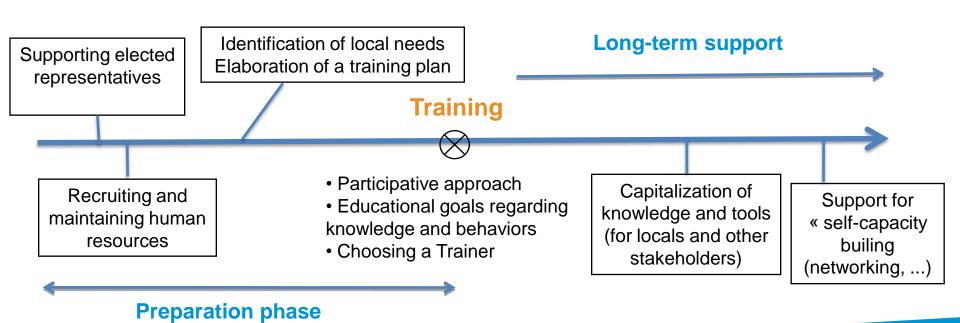






Some proposals to improve efficiency

To be efficient in the long term, training should not be seen as punctual and must be part of a dynamic process with a preparation phase and a post training support and monitoring

















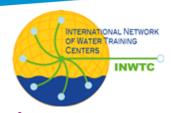


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Samir BENSAID (Maroc), pour le Réseau International des Centres de Formation aux métiers de l'Eau







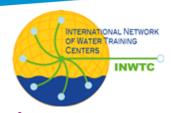


Diagnosing needs, sharing experiences and finding solutions:
The benefits of a training centre network



The facts:

- Many water treatment plants and sewer networks in emerging countries do not work well (e.g. bad design, badly run, inefficient usage, rapid degradation due to lack of maintenance)
- To ensure that these infrastructures last and guarantee quality services, it is vital that a competent level of management, running and maintenance be developed at every level.







Diagnosing needs, sharing experiences and finding solutions:
The benefits of a training centre network



The facts:

- All over the world, thousands of operators, technicians and managers need to be trained each year to run collective water services
- Local training skills need to be created or reinforced in the countries where they are needed.







An International Training Center Network with a shared commitment

Initiated by the International Office for Water (IOWater) and backed by the French Ministry for Foreign Affairs and the French Development Agency, the Constitutive Assembly of the new International Network of Water Training Centres – INWTC – was held in Paris on 19 & 20 November 2008



Founding members:

Algeria, Benin, Burkina Faso, France, Kenya, Laos, Lebanon, Mali, Mexico, Morocco, Poland, Togo, Tunisia, Uzbekistan, Vietnam







Shared objectives



What we want:



- To develop relationships and the exchange of experience and expertise,
- To reinforce awareness of the importance of training in the water sector,
- To strengthen relationships with the main funding bodies
- To promote training and innovating solutions
- To facilitate the creation of shared tools and teaching materials
- To support the setting-up of new training centres in the world,
- And more.







An International Training Center Network with a shared commitment



www.ricfme.org www.inwtc.org

For more information on the network, its objectives and charter, and planned projects.

contact@ricfme.org





















FORMATION aux METIERS de l'EAU et RENFORCEMENT des COMPETENCES TRAINING and ENHANCEMENT of SKILLS in the WATER SECTOR



- What's new in professional training tools?
- **What financing?**

















ENGAGÉS

POUR L'EAU

DU MONDE.



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Michel GUINAUDEAU, Master OPT de Paris Tech de la chaire Eau pour tous









International Executive Master Opt Eau pour Tous Water for All



A new, one-year programme of ParisTech for the management of drinking water and sanitation services

- Focusing on the medium-sized cities in developing or transitional countries

 Up to one million inhabitants
- * public services or private companies * operators, regulators, owners
- Opened worldwide: Taught in French (2009-10) and English (2010-11)















International Executive Master

Opt Eau pour Tous Water for All



The programme helps developing the skills required from managers of urban drinking and sanitation services:

- To understand the social and environmental setting of the services and to adapt methods and organization to better fit needs
- To secure the sustainability and the quality of the services and to manage crisis
- To master human resources management and communication techniques









International Executive Master Opt Eau pour Tous Water for All



For each trainee, a commitment about an individual mission ...

- ... from the employer:
 - To select and send a trainee

 To appoint him for an individual mission



... from the trainee: to carry out the individual mission, generally the analysis of a water supply or sanitation service in his country



... from the educational team: To strengthen the trainee's management skills and to support him in his individual mission









International Executive Master OpT Eau pour Tous Water for All



A programme based on two pillars:

- Education: courses, case studies, etc

 Most of the lecturers are field professionals
- On-the-job tasks, with 3 work placements (6 months out of 12):
 - * 2 in the home country for the individual mission
 - * 1 in a leading service

 Each trainee is coached by a senior

 professional









Work placements

International Executive Master Opt Eau pour Tous Water for All



A three-step programme which follows the phases of the individual mission on a water or sanitation service







International Executive Master Opt Eau pour Tous Water for All



- Location: ENGREF, intern post-grade institute of AgroParisTech, at Montpellier in France
- Deadline to apply:

 15th of May 2009 for French 2009-10 session

 15th of May 2010 for English 2010-11 session
- Costs for the whole one-year programme:
 Tuition fees: 15.000 euros
 Travel, accommodation: around 16.000 euros
 Total cost: around 31.000 euros per trainee







International Executive Master Opt Eau pour Tous Water for All



For more information and to send an application, please contact:

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Annie COULANGE, Société des Eaux de Marseille













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- Customized training program for the city of **Oujda Authority (RADEEO)**
- Immersion: on-the-job training with the operator
- Global performance improvement: water and sanitation management in Constantine







Société des Eaux de Marseille: A Group specialized in environmental issues





2 500 employees, Turnover 2007 : 430 M €
Present in more than 80 communities in France (from which Marseille,1 M Inhab.)
17 subsidiaries working on water, environment and specialized services, from which, 3 agencies abroad (Morocco, Tunisia, Algeria)



More than 25 years of experience in Latin America and the Mediterranean Region An offer of turn-key services which stems from diagnosis, technical assistance, engineering, management contracts to competency transfer An expertise recognized by the main international funding agencies: WB, IDB, AFD, EIB, KFW...

Competencies transfer and training:

L'Ecole des Métiers, the training center of the Group, registered as a training institution from 1992, ISO 9001 certified, a network of 80 internal trainers, 1.800 attendees, 80% professional trainings, 75% on-site trainings







EXPORTING A PROFESSIONAL TRADE: leak detection





Expertise and know how

Quick repair of leaks: 2 leaks reported, localized and repaired each day

An adapted renewal policy: 20 km of networks renewed each year.

Setting up of preventive means



<u>International</u> <u>experience transfers</u>

Since 1976 in Latin America and North Africa (Maghreb countries)

Algeria 2001-2006: 2000 leaks detected and training of technicians

Morocco: 15 years of services and training of performing local teams

Pedagogical quality

Dedicated Training Centers

Practical training process in the field

Advanced classes on new tools

Trainer's training











EXPORTING A PROFESSIONAL TRADE: leak detection





Services and Technical Assistance to potable water network operators

(ONEP, Régies (Moroccan Water Boards) and private operators

Setting up of leak detection services

Organization of the department

Training on the use of the equipment

Training in the leak detection activity







Mauritania,

Algeria,

Gabon













Support towards the implementation of new technological management tools:



Information technologies and customer relationship management:

Deployment of the WAT-erp software

Awareness raising on the CUSTOMER concept

Setting up of customer reception structures (commercial agencies)

Training on customer reception (physical and phone)





GIS and Mapping, Network Operation and modeling, Remote monitoring: Deployment of tools Training on software and modeling

Introduction to remote meter reading

Crisis management

Adapting tools to the operators' needs

Exchanges with operational users

Benefiting from the operators' experience

Knowledge on interactions and information circuits







CUSTOMIZED TRAINING PROGRAMME:

Updating and improving global competencies for the RADEEO (Water Board of Oujda, Morocco)

Goals:

Improvement of the technical staff's competencies

Putting in practice in the day-to-day activity

Awareness raising on safety issues and state of the art practices

Sharing of experiences on the use of trade dedicated tools







Players:

SEM and RADEEO: Exchanges on the topics, the population and evaluation

AFD (French Development Agency)

ONEP, OFPPT: Partnerships







CUSTOMIZED TRAINING PROGRAMME: Updating and improving global competencies

for the RADEEO (Water Board of Oujda, Morocco)

Organization:

10 technical subjects related to potable water and sanitation

70 participants: technicians, specialists, proximity management

Training with professionals

Interactive modular pedagogy

Diversified training tools





Evaluation:

Immediate put in practice of new competencies

Group dynamics and cohesion

Positive attitude towards change

Transfer of practical experience









Players:

Operations managers and decision makers

Partners: training organisms (OIEau, Universities...)

Organization:

Global approach: the whole operational and crossfunctional departments of the organization

On-the-job real situations

Exchange of experience between water professionals

Integration inside operational teams

Demonstration of technical means in real context

Évaluation:

Strengthen relationships between professionals

Share practical issues

Mutual benefits and feedback

Enrichissement mutuel et retour d'expériences

















GLOBAL IMPROVEMENT OF PERFORMANCES

Water and sanitation management in the Wilaya of Constantine Main goal:

move towards the operator's independence having earned the

capabilities and state of mind of a performing company

Contract in figures

Duration: 5 years and 6 month (from 04/10/2008),

1,2 millions inhabitants, 3rd city of Algeria,

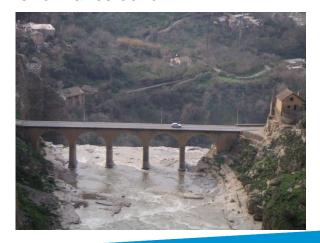
1200 employees appointed by ADE, ONA and the urban communities,

Network: 2000 km of sanitation and drinking water piping, 900 km of sewage water piping, treatment plants





Performance bond



Approach:

An organization set to encourage transfers: working in pairs, tutoring

Provision of expertise and technological tools

Acquisition of technical and managerial competencies, setting up of a training centre

Change management













THANKS FOR YOUR





























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Jean-François DONZIER, Office International de l'Eau









TRAINING CENTRES FOR UTILITIES MIDDLE MANAGEMENT



- In water and wastewater utilities, training needs mainly concern middle management and workers (around 80% of staff)
- Continuous education is necessary for permanent adaptation to new techniques and skills, improvement of efficiency and trend towards quality certification
- Training should be very practical, based on the use of real size equipments and adapted training kits





Training Infrastructures OIEau





30 000 m² Technical training plaforms













TRAINING CENTRES FOR UTILITIES MIDDLE MANAGEMENT



Training needs are very similar in water utilities around the world, and OIEau experience has been used in:

- Creation of Water Training Centres for Water in Poland, Mexico, Algeria, Saoudi Arabia
- Development of technical training halls and training of trainers
- Elaboration of training kits adapted to local context and language
- Setting up of the International Network of Training Centres for Water Professionals (RICFME)





POLAND

- ✓ Population: 38,600,000 (2002)
- ✓ Area: 312,683 Km2
- ✓ Context : Integration of Poland in European Union
- ✓ Financial support : European Programme and French Cooperation
- ✓ Feasibility Study : IOWater
- ✓ Institution: "Gdansk Water Foundation" created in 1995
- ✓ Initial Focus: Laboratory analysis, Wastewater Treatment
- ✓ Training Centre Capacity: 1 500 trainees /year
- ✓ Successful operation for 14 years



POLAND









MEXICO

- ✓ Population: 103,400,000 (2002)
- ✓ Area: 1,972,547 Km²
- ✓ N° of Water Utilities : 970
- ✓ Water Utility in Mexico City : DGCOH (13,000 employees)
- ✓ Water Sector Staff: around 130,000
- ✓ Body in charge of water : CONAGUA
- ✓ Feasibility Study for setting-up a Training Centre : IOWater
- ✓ Architectural Project : IOWater + Mexican Architect
- ✓ Support : French Government + Mexican Authorities
- ✓ Launching of Centre in 2001, name : CEMCAS
- ✓ Training the trainers + Training materials : IOWater
- ✓ Training Centre Capacity: 3,000 3,500
- ✓ "Weakness": Lack of financial mechanism for continuous education



MEXICO









ALGERIA

- ✓ Population: 32,278,000 (2002)
- ✓ Area: 2,381,740 Km2
- ✓ Organism: Algerian Water Company (AWC)
- √ Staff: 26,000 (AWC) + 7,500 (ASC)
- ✓ Financial support: Belgium Government
- ✓ Feasibility Study: IOWater (2006)
- ✓ Training the trainers: IOWater
- ✓ Architectural Project: IOWater + local architect
- √ Training Centre capacity: 2,500 3,000
- √ Construction in progress (2008 2009)



ALGERIA













- Elaboration of training kits adapted to the context, translated in different languages (english, spanish, arabic, vietnamese..)
- "Cahiers Techniques" developed in France

Example of Training Kits focused on professional practices developed for Jeddah Training Centre





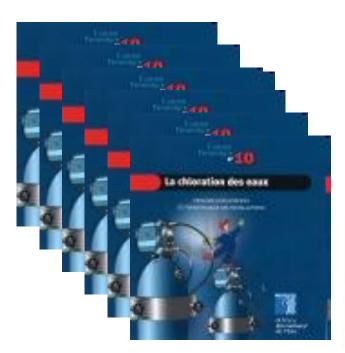


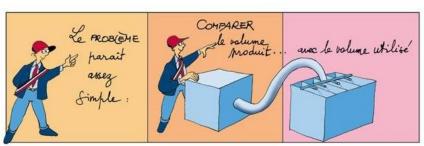


for Water

TRAINING CENTRES FOR **UTILITIES MIDDLE MANAGEMENT**

Cahiers techniques







eaudoc@oieau.fr





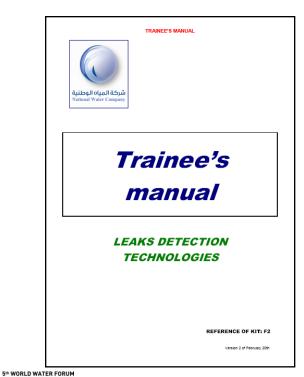






Example of Training Kits focused on professional practices















for Water







TRAINING CENTRES FOR **UTILITIES MIDDLE MANAGEMENT**

Example of Training Kits focused on professional practices



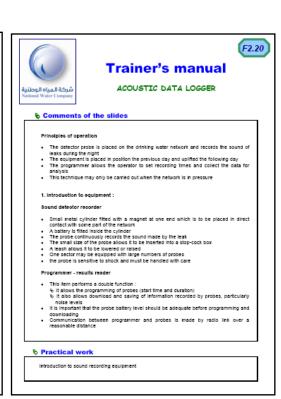


Trainer's manual

LEAKS DETECTION TECHNOLOGIES

REFERENCE OF KIT: F2

Version 2 of February 20th





5th WORLD WATER FORUM



A trainer manual + supporting slides



















FORMATION aux METIERS de l'EAU et RENFORCEMENT des COMPETENCES TRAINING and ENHANCEMENT of SKILLS in the WATER SECTOR



Martin PARENT, Agence Française de Développement









Training and enhancement of skills: why financing?

Aside from infrastructure investment:

- Acquisition of new behaviors
- Setting up of new institutions and policies
- To ensure the sustainability of infrastructures and of quality public utilities









What to finance?



A wide range of targets:

- Vocational training facilities + soft
- Technical assistance (international + local
- Technical assistance (international + local, institutional issues + building infrastructure capacities)
- Comprehensive visits, masters
- Exchanges: WOPs, international networks (RICFME)









How to finance?



Modes of finance:

- **States**
- Utilities, Basin organisations, ...
- Households, trained persons
- Role of ODA (finance, sharing experiences), training in development projects, grants, loans









afe: a committed partner



Examples of operations

- Niger Long term Technical assistant (WSS, IWRM)
- Laos Nam Papa Vientiane
- Sub-Saharan rural hydraulic



RICFME, WOPs









Setting up sustainable training process: key issues

- Profitability? Necessity of internal and external advocacy
- Vocational training: receipts, business plan, 3 viabilities
- Link between investment and training effort
- Sustainable and foreseeable

