



SENIOR TECHNICIAN IN HYDROLOGY



Training area: Science and technology

Course:

Specialties: Hydrology

Purpose: Professional

Grade: Senior Technician

Training duration: 04 semesters

Training venue: AGRHYMET Regional Centre. Niamey (Niger)

Objective of the training

The aim is to provide countries' technical services with competent executives capable of carrying out tasks relating to the installation and operation of hydrometric networks, the creation and updating of hydrological databases, and the production and dissemination of data on water resources useful to all sectors of socio-economic activity.

Target audience

The target group is made up of West African executives from the CILSS/ECOWAS region working in State services, the broader public sector, the private sector and NGOs with professional experience in hydrology, rural engineering, civil engineering or hydraulics, or non-professional applicants with at least a C, D baccalaureate or equivalent degree.

Career opportunities

Senior hydrology technicians enjoy a wide range of professional opportunities. They can occupy the following positions:

- Hydrology work supervisor
- Hydrology research assistant
- Hydrometric network operations manager
- Hydrological network managers

For further information, please contact:

AGRHYMET Regional Centre

BP : 11011. Niamey. Niger Tel: (227) 20 31 53 16 Fax: (227) 20 31 54 35

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Entry level

- Professional applicants:

Holders of a C or D baccalaureate or equivalent diploma + 2 years' experience in hydrology, hydraulics or agriculture + competitive examination for applicants for AGRHYMET Regional Centre scholarships.

- Non-professional candidates:

Holders of C or D baccalaureate or equivalent diploma + competitive examination for applicants to the AGRHYMET Regional Centre scholarships.

Training program

First year

Course credits	
Semester 1	Semester 2
MAT 1101 : Mathematics	HYD 1201 : Hydrology
PHY 1102 : Physical Sciences	Hyg 1202 : Hydraulic
AES 1103 : Life Sciences & Environment	TOG 1203 : general Topography
GEO 1103 : general Geology	PLM 1204 : Rainfall 1
DCS 1105 : Soil conservation management	HYM 1205 : Hydrometry
SCC 1106 : Climate and climate services	HYS 1206 : Surface Hydrodynamics
MAG 1107: Meteorology	TSD 1207 : Geomatics applied to water
INF 1108 : Computer	
RDS 1109 : scientific Writing	EPS 1208 : physical Training and sports
LAN 1109 : living Language	

Second year

Course credits	
Semester 1	Semester 2
PLM 1301 : Rainfall II	DTM 1401 : technical Drawing and quantity surveying
IRE 1302 : regional Initiatives in the field of water resources	GRE 1402 : Water risk management,
QEM 1303 : water Quality	MGE 1403 : Irrigation water management
HGE 1304 : Hydrogeology	GIR 1404 : Integrated water resources management
SIM1205 : Internship	GTH 1405 : Hydrological data management and processing
HYA 1306 : Applied Hydrology	MEM 1408 : Thesis
ADOS 1307 : Modelling and hydrological Software	
IME 1308 : Maps and weather profile	

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Teaching methods: infrastructure and human Resources

Supervision will be provided by experts from the ARC, the Platform of Training and Research Institutions on the Environment and Meteorology in Niamey (PIREM) composed of several institutions (NBA, ACMAD, EAMAC, ICRISAT, CERMES, Abdou Moumouni University), the United Nations system, senior officials from the Ministries of hydraulics and Environment, private sector executives, NGOs and others

ARC has the appropriate equipment for this training: computer rooms connected to the Internet, a 130-bed dormitory with Wifi, a 120-seat amphitheater, classrooms, a videoconferencing room, a water quality laboratory + a Hydrology Satellite, 2 hectares of irrigated perimeter, audio-visual equipment, rolling stock, etc.

Duration of the training and certification of studies

The training lasts 2 years and takes place at the AGRHYMET Regional Centre, Niamey, Niger. It leads to the award of Senior Technician degree in Hydrology, recognized by the African and Malagasy Council for Higher Education (CAMES) as equivalent to a University Diploma in Technology (DUT).

Application file

Applicants must send to AGRHYMET Regional Centre an application including

- a detailed CV;
- a birth certificate;
- 2 recent passport photos;
- certified photocopies of diplomas and transcripts;

Pre-registrations are issued by the AGRHYMET Regional Centre to applicants who meet the conditions to facilitate their search for financing from cooperation agencies (CTB, Spanish, French, Austrian), UEMOA, AU, EU, NGOs and other regional and international institutions.

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