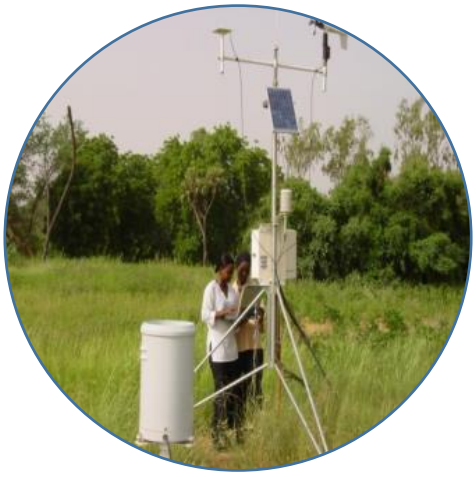
SENIOR TECHNICIAN IN AGROMETEOROLOGY



Training area: Science and Techniques
Course:

Specialties: Agrometeorology

Purpose: Professional

Grade: Senior Technician

Training duration: 04 semesters

Training Venue: AGRHYMET Regional Centre. Niamey (Niger)

OBJECTIVE OF THE TRAINING

The aim is to train senior technicians capable for collecting and managing agrometeorological data networks, monitoring the cropping season and developing agroclimate services and products for users (farmers, livestock breeders, agropastoralists, etc.), forecasting harvests, controlling and managing water in the field, training, consultancy and agrometeorological extension.

TARGET AUDIENCE

The target group consists of agricultural or meteorological technical agents, agrometeorological observers and agricultural contractors, students, etc.
Applicants must hold a C, D or equivalent baccalaureate's degree.

For further information, please contact:
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TRAINING ORGANIZATION

The course lasts 2 years. The curriculum is structured in Training credits (UE) in line with the LMD system.

The professional orientation of the program justifies the importance given to study trips and academic outings, internships in home countries and thesis.

As a result, graduates of this program are directly operational.

TASKS PERFORMED BY GRADUATES

Senior Agrometeorology technicians are responsible for:

- Observing and collecting agrometeorological and phytosanitary data;
- Managing climatological and agrometeorological data collection networks;
- Agrometeorological monitoring of the main crops;
- Forecasting and monitoring operations for the cropping season;
- Water management and control at plot level
- Agrometeorological and phytosanitary advice and extension.

HUMAN RESOURCES & EQUIPMENT

The supervision will be provided by experts from the ARC, the Platform of Training and Research Institutions on the Environment and Meteorology in Niamey (PIREM) made up of several institutions (NBA, ACMAD, EAMAC, ICRISAT, Abdou Moumouni University), research teachers from EMIG, executives from ASECNA, ANAC, etc. In terms of teaching facilities, ARC has adequate equipment for this training: a 130-bed dormitory with a Wifi communications area, a videoconference room, a 120-seat lecture hall, a library stocked with shelved and digitized documents, 2 ha of irrigated land, rolling stock for field trips and study tours, and a range of audio-visual and teaching equipment.

A range of other state-of-the-art instrumentation and microcomputer infrastructure and equipment is also available to support practical teaching:

- 3 computer rooms connected to Internet, and videoconferencing facilities;
- A didactic meteorological park and an automatic weather station;
- Various state-of-the-art facilities for practical work in Microcomputing and computer networks;
- An electronics laboratory with a variety of electronic equipment: analog and digital oscillography, LF function generators, spectrum analyzer, printed circuit board platform, multimeters, kit and PLC.

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VENUE AND GRADUATION

The training is organized at AGRHYMET Regional Centre, Niamey, Niger, and leads to the award of the Diploma of Senior Technician in Agrometeorology, recognized by the African and Malagasy Council for Higher Education (CAMES) as equivalent to the University Diploma in Technology (DUT).

TRAINING PROGRAM

First year

Course credits	
Semester 1	**Semester 2**
MAT 1101 : Mathematics	PVE 1201 : crop Production
PHY 1102 : Physical Sciences	MTA 1202 : Applied Meteorology
ENH 1103 : Environment and hydrology	INT 1203 weather measurement Instruments
PUTS 1104 : Basic Meteorology	OBS 1204 : meteorological Observation
CLI 1105 : Basic Climatology	AGM 1205 : The basis of Agrometeorology
VDC 1106 : climate change and Variability	CAG 1206 : Agrometeorological advice
RAD1107 : Radiometry	GIS 1207 : GIS and remote Sensing
TOP1108 : Topography	VDE 1208 : Study Trip
LAV1109 : living Language	INF 1209 : Computer sciences

Second year

Course credits	
Semester 3	**Semester 4**
GEF 1301 : water Management and soil Fertility	SAM 1401 : Agrometeorological Monitoring
SPC 1302 : Monitoring and crop protection	AMA 1402 : Applied Agrometeorology
SPA 1303 : agricultural production System	ACL 1403 : climatological analysis
BEAK 1304 : water Requirements of crops	SPA 1404 : Spatialization of climate data
IEA 1305 : Irrigation and agricultural Experiments	SBD 1405 : database management System, software and applications,
CMA 1306 : Mapping and measuring altitude	MEM 1406 : Thesis
OBC 1307 : Tools for monitoring crop water requirements	
COM 1308 : Communication techniques	
SMN 1309 : Function of National Meteorological Services	
SIM 1310 : Internship	

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