



# SENIOR TECHNICIAN IN CROP PROTECTION



**Training area:** Agricultural Sciences

**Course:** Agriculture and Environment

**Specialties:** Crop Protection

**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 qualified technical staff in crop protection, with an emphasis on implementing the integrated pest management approach in the farming environment.

## OUTLETS

Crop protection extension agent, agricultural advisor, trainer, Crop health controller, pesticide store manager, laboratory technician, research assistant,

## TARGET AUDIENCE

The target group will be public or private service agents working in the fields of agriculture, meteorology or hydrology. All candidates must hold a C, D Baccalaureate or equivalent degree.

## TRAINING ORGANIZATION

The course lasts 2 years, divided into 4 semesters. 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.

Graduates of this program are thus directly operational in the field.

For further information, please contact:  
AGRHYMET Regional Centre

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## TASKS PERFORMED BY GRADUATES

Senior Technicians in Crop Protection are responsible for:

- monitoring and diagnosing pests,
- prevention and phytosanitary interventions,
- phytosanitary control,
- pesticide management and post-harvest product protection;
- cropping season monitoring (collection of phytosanitary data);
- assistance with agricultural research;
- general agricultural advice, training and extension.

## HUMAN RESOURCES & EQUIPMENT

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), teacher-researchers from EMIG, and executives from ASECNA, ANAC and others.

ARC's teaching facilities include a 130-bed dormitory with a Wifi communications area, a videoconferencing room, a 120-seat amphitheater and 08 classrooms, a library stocked with on-shelf 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.

Various other state-of-the-art PV infrastructures and equipment are also available to support practical work:

03 laboratories specialized in phytopathology, agricultural zoology, Phytopharmacy and 01 rattery.

These complete laboratories are equipped with fluorescent, drawing and discussion microscopes, ELISA equipment, autoclaves, incubators, hoods, centrifuges and other equipment, an irrigated perimeter of 2.5 ha, a vegetable garden with a taste-by-taste system, 03 greenhouses and 02 insectariums for locust breeding,

Equipment for microbiological analysis of soil and plant material.

## VENUE AND GRADUATION

The training takes place at ARC and leads to the award of the Senior Technician diploma in Crop Protection, recognized by the African and Malagasy Council for Higher Education (CAMES) as equivalent to the University Diploma in Technology (DUT).

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## TRAINING PROGRAM

### First year

Course credits	
Semester 1	Semester 2
MTH 1101 : Mathematics	PPG1201 : General Phytopathology
PHY 1102 : Physical Sciences	NMG1202 : General nematology
SVI 1103 : life Sciences	ZAG1203:General agricultural zoology
ECE 1104 : Ecology	GDM1304 : Integrated pest Management and gardening productions
MCL 1005 : Meteorology and Climate	BEC1205 : General Mycology
AGR 1106 : Crop Production	BIB1205 : General Bacteriology
INF1107 : Computer	BIN1206 : General Virology
GEM 1108 : Geomatics	GPA1207 : Agropharmacy product Management
LAV1107 : Living Languages	VAR1207 : Extension and rural coordination

### Second year

Course credits	
Semester 3	Semester 4
PCS 1301 : Phytosanitary monitoring campaigns	EEA1401 : Agricultural Survey and Experimentation
MGE1302 : Control and Management of water and soil fertility	DCM1402 : Diagnosis and control of mycobacterial
AMP 1303 : production Enhancement	DCN1403 : Diagnosis and control of nematodes
GDC1304 : Integrated pest Management and cereals	PDS104 : Protection of stored crops and seeds
GDF1305 : Integrated pest management and fruit production	RSC1405 : scientific Writing
CPQ1306 : Phytosanitary Control and Quarantine I	SIA1406 : information System on food security
CPQ1307 : Phytosanitary Control and Quarantine II	CSP1407 : Thesis
CSP1308 : practical knowledge of the environment	

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