



# Crop Protection Engineer



**Training area:** Agricultural Sciences

**Course:** Water and Environment

**Specialties:** Crop Protection

**Grade:** Engineer

**Purpose:** Professional

**Duration of training:** 6 semesters

**Training venue:** AGRHYMET Regional Centre. Niamey (Niger)

## TRAINING OBJECTIVE

The objective is to train managers capable of designing crop protection programs with an emphasis on the integrated crop pest control approach in rural areas.

## ORGANIZATION OF TRAINING

The courses are spread over 3 years and include theoretical and practical courses, field visits, study trips, end-of-year internships at the end of the 1st and 2nd year and a 6-month end-of-studies thesis, preferably in the student's country of origin.

### 1st year

Course credits	
Semester 5	Semester 6
SVE 1501: Life and Environmental Sciences	PRA 1601: Agricultural production
CHB 1502: Chemistry and Biochemistry	RAC 1602: Crop pests
AGM 1503: Meteorology and Agro Meteorology	NDS 1603: Stored Food Pests
GES 1504: Water and soil management	TAP 1604: Taxonomy and Bio ecology of Pathogens
TBR 1505: Taxonomy and Bio ecology of Pests	LEP 1605: Phytosanitary legislation
GAP 1506: Applied Geomatics	ARP 1606: Analysis and management of Phytosanitary risks
INF 1507: Computer Science	DQN 1607: Detection and quantification of nematodes
LAV 1508: Living language	EQP 1608: Sampling and quantification of pathogens
	EMH 1609: Evaluation of weeds in the field

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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## 2nd year

Course credits	
Semester 7	Semester 8
SCS 2101: Social Sciences	GEN 2201: Environmental Management
ECA 2102: Agricultural Economics	DPP 2202: Detection of crop pathogens
GAP 2103: Applied Genetics	EPR 2203: Evaluation of yield losses
APP 2104: Weeds and parasitic phanerogams	MAM 2204: Mammalogy
PPH 2105: Phytopharmacy	INV 2205: Diagnosis of crop nematodes and viruses
ROD 2106: Rodent studies	GPD 2206: Production and Pest Management
PSE 2107: Seed Protection	ICB 2207: Identification of fungi and bacteria
COM 2108: Communication Techniques	STA 2208: Applied Statistics
CSP 2109: Socio-professional knowledge I	EPM 2209: Epidemiology of Diseases I

## 3rd year

Course credits	
Semester 9	Semester 10
EXA 2301: Agronomic experimentation	MEM 2401: Thesis
GVC 2302: Management of cereal and legume viruses	
GNC 2303: Management of cereals and legumes nematodes	
BDP 2304: Phytosanitary database	
MDG 2305: Development Modeling and Pest Management	
CSP 2306: Socio-professional Knowledge II	
PIC 2307: Practical training on Integrated Crop Protection	

## APPLICATION FILE

Applicants must send an application file to the AGRHYMET Regional Centre consisting of:

- ❖ a detailed CV;
- ❖ a birth certificate;
- ❖ 2 recent passport photos;
- ❖ photocopies of diplomas and transcripts;
- ❖ proof of funding (or a scholarship certificate)

## TARGET AUDIENCE

The target group will consist of West African executives from the CILSS/ECOWAS region, holding a Senior Technician diploma and working in State services, the broader public sector, private sector, NGOs with professional experience in the fields of agriculture, crop protection, etc. Applicants can also be non-professionals. They must hold a D U T or B TS (Advanced Technician's Certificate), a scientific DUES or DEUG (second-year university diploma) Or equivalent diploma.

## TASKS PERFORMED BY FUTURE GRADUATES

**Crop Protection Engineers will:**

- ❖ design and implement integrated crop management programs;
- ❖ do the analysis of phytosanitary data;
- ❖ produce decision-support tools for crop pest management;
- ❖ do phytosanitary control, management of pesticides and phytosanitary data banks;
- ❖ provide advice support to producers and do applied research in phytosanitary sciences.
- ❖ design watercourse development works.

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