



## PrepVet Online Course

### Disaster Risk Management and Climate Change Adaptation for Vet Students

#### Course Contents

##### **1. Terminology and Concepts of Disaster Risk Management**

The first module explains the terminology, basic concepts and areas of work of disaster risk management, which are necessary to promote risk analysis and disaster risk planning. These concepts include: types of disasters, the link between disasters and development, disaster risk management areas, UNISDR and Sendai Framework, and the actors involved in Disaster Risk Management

##### **2. Disaster Risk Analysis and Plan**

This module provides the students with the methodology and tools to identify, analyse and prioritize risks, assess available resources, risk maps, design coping strategies and solutions. The students will be able to design a risk reduction plan that includes animals.

##### **3. Companion Animals**

Explains the role of the veterinarian in promoting responsible pet ownership and ensuring that companion animals are included in their family's emergency plan

##### **4. Climate Change Adaptation**

In this module, students will learn the basic concepts of climate change and its impact, as well as the link between disasters and climate change. The module also shares specific actions to face droughts and specific examples on the impact of climate change on animal health, nutrition, productivity and behaviour. This module also shares examples of the effects of climate change per region and adaptation measures for the livestock sector.

##### **5. Security in Emergencies**

This module describes the physical and emotional risk that response operation workers have to face. The module focuses on issues of biosecurity and zoonosis, and explains the measures to avoid these risks.

##### **6. Incident Command System**

Offers an introduction to the Incident Command System, as an organisational structure and standardized approach to emergency response coordination, providing a common hierarchy for responders from multiple agencies.

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## **7. Triage**

The module introduces triage as a tool to prioritize individual animals affected by an event, as a way to improve the flow of patients and veterinary care more efficiently during an emergency.

## **8. Evacuation Process**

Describes the different actions that specialized teams should undertake during a response operation to evacuate animals, following basic animal welfare standards. The topics covered in this module include animal handling in different situations, low-stress animal handling techniques and management of dead bodies.

## **9. Introduction to Livestock Emergency Guidelines and Standards (LEGS)**

Students are introduced to LEGS, as an international guideline for the design and implementation of livestock-related emergency interventions. The module describes: preliminary assessments, PRIM Matrix, technical interventions, and monitoring and evaluation

## **10. Role of the veterinarians and the academia in DRR**

This module reviews the role of the veterinary professional and the academia in disaster risk management, underscoring the importance of good animal handling practices and resources, as well as mitigation measures in farms and vet clinics. .

## **11. Animal Welfare**

In this final module, students will be provided with an introduction to animal welfare, a multidisciplinary science based on the concept of animal sentience.

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## Course Structure

Week	Objectives	Contents	Teaching Techniques	Duration
1	Course Introduction	► Profile	Descriptive	2 hours
1	Understand basic concepts and terminology of Disaster Risk Management	► Basic Concepts Types of Disasters Disasters and Development Disaster Risk Management Areas Sendai Framework for Action Actors involved in Disaster Risk Management	Forum 1: Welcome to participants and course structure  Online Module 1: Terminology and Concepts of Disaster Risk Management	1 hour          4 hours
2	Identify disasters, analyse risks, identify vulnerabilities, develop a risk map and risk reduction plan	► Disaster Risk Analysis Risk Identification Animal vulnerabilities Risk Map Prioritization of Risks Analysis Disaster Risk Reduction Plan	Online Module 2: Disaster Risk Analysis and Plan  First Evaluation Students should be able to apply the concepts of disaster risk management	4 hours   4 hours

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3	Develop the capacity for disaster risk management for pets and promoting preparedness among pet owners	Responsible pet ownership and disaster preparedness	Online Module 3: Companion Animals  Reading resources (6)	2 hours
4	Understand the relationship between disaster risk management and climate change, as well as the impact of climate change in animals	► Climate Change Basics Effects of Climate Change Key factors of Climate Change Mitigation and Adaptation Approach CCA for the livestock sector Relationship between DRR and CCA	Online Module 4: Climate Change Adaptation  Forum 2: Based on the module information, analyse the issue of climate change and how it relates to disaster risk management	5 hours  1 hour
5	Recognize the most relevant security issues during emergencies	► Biosecurity Zoonosis	Online Module 5: Security in Emergencies	4 hours
6	Understand the Incident Command System	► Incident Command System	Online Module 6: Incident Command System  Forum 3: How to implement these guidelines? Students should identify how these guidelines apply to different scenarios	4 hours  2 hours

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7	Understand and implement the triage process for patient prioritization.	► Triage	Online Module 7: Triage	3 hours
8	Comprehend how a process for evacuation of animals should be undertaken	► Animal handling in different situations Low-stress animal handling techniques Management of Dead Bodies	Online Module 8: Evacuation Process  Second Evaluation Students should be able to respond correctly to questions regarding evacuation process, incident command system, and security.	4 hours  3 hours
9	Recognize how the LEGS guidelines work to identify emergency interventions	► Preliminary Assessment PRIM Matrix Technical Interventions Monitoring and Evaluation	Online Module 9: Livestock Emergency Guidelines and Standards	5 hours

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10	Deliberate on the role of the veterinary professional in disaster risk management, and its part on the promotion of a preparedness culture among animal owners	► Role of the veterinary professional in private clinics, farms and public sector	Online Module 10: Role of the veterinarians in DRR  Forum 4: Cierre del curso. Apreciaciones de los participantes y evaluación del curso.	4 hours  2 hours
11	Understand the basic concepts of animal welfare	Introduction to Animal Welfare	Online module 11: Animal Welfare  Forum 5	6 hours  2 hours
	Partial evaluations			6 hours
	Final Evaluation			6 hours
	Final assignment: Risk Reduction Plan			30 hours
	Field research			30 hours
	Readings and other resources			26 hours

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	Bibliographical research			10 hours
	TOTAL			170 hours

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