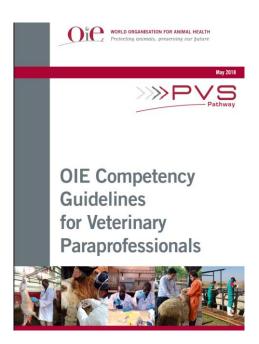


OIE Educational Guidelines for VPPs

- Competencies:
 - Tracks
 - Animal Health (AH)
 - Veterinary Public Health (VPH)
 - Laboratory Diagnosis (Lab)
 - Spheres of Activity (SoA)
 - Competencies

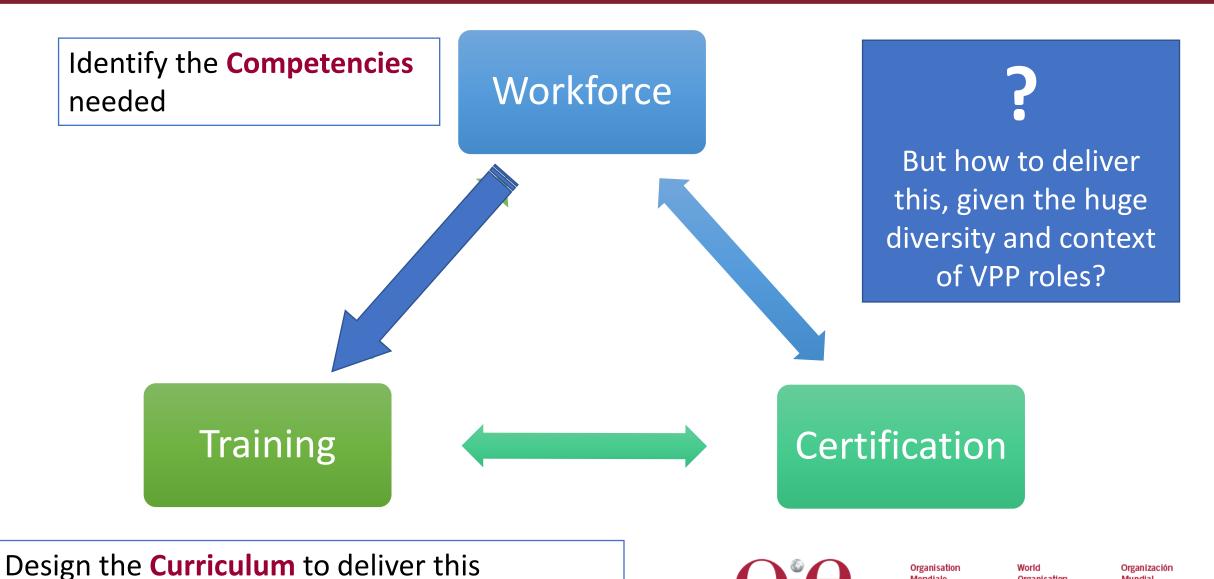


- Curriculum:
 - Courses
 - Units
 - Learning Outcomes



Classroom representations of the Competencies

Linkage Between Workforce & Training



Modular Approach to Curriculum Design

Competency Guidelines

- Tracks
- Spheres of Activity (SoA)



Sphere of Activity		Tracks of Veterinary Paraprofessionals				
Spii	ere of Activity	Lab	Animal Health	Public Health		
1.	Animal and Veterinary Science		•	•		
2.	Laboratory Science	•				
3.	Biosafety, Biosecurity and Occupational Health & Safety	•	•	•		
4.	Communication	•	•	•		
5.	Veterinary Legislation, Policies, Ethics and Professionalism	•	•	•		
6.	Use and Management of Equipment and Facilities	•	•	•		
7.	Animal Handling and Animal Welfare	•	•	•		
8.	Animal Production and Agricultural Economics		•	•		
9.	Specimen Collection and Sampling	•	•	•		
10.	Laboratory and Field Testing	•	•	•		
11.	Laboratory Quality Management	•				
12.	Workflow Management	•	•	•		
13.	Record Keeping, Data Collection and Management	•	•	•		
14.	Disease Prevention and Control Programmes	•	•	•		
15.	Veterinary Products		•	•		
16.	Food Hygiene	•	•	•		

Curricular Guidelines

Associated Competencies



- Courses
 - Units

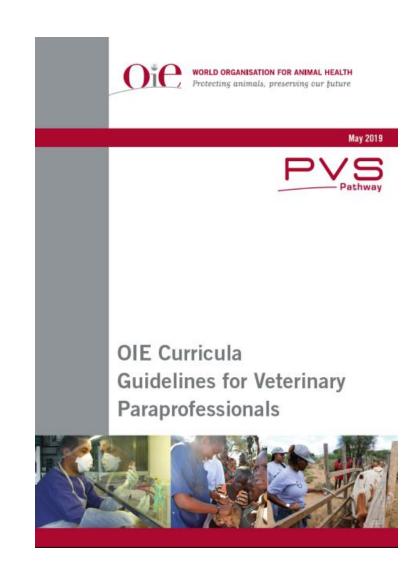






Structure of the Document

- Introduction
 - Background, development
 - Overview, structure
 - How to use the Guidelines, scope
- Recommended Curricula Model
 - Modular approach customise
 - Theoretical courses, units
 - Technical skills development
 - Course outcomes map to SoAs and respective competencies
- Annexes
 - Job Scenarios for each track
 - Entry level vs higher level scenarios



OIE <u>Curricula</u> Guidelines for Veterinary Paraprofessionals

- Classroom representations of Competencies
- Units:
 - Basic building block for curriculum
 - Combine to create Courses
- Theoretical (blue)
 - Knowledge
 - Foundation
- Technical skills (green)

Course	Units	Course Outcomes
Theoretical		
	Disease Control Programmes & policies General principles	 <u>List and describe</u> the various methods used for disease control, specifically: surveillance, compartmentalization, eradication, stamping out, vaccination, quarantine, traceability
Principles of Disease Control	Epidemiology	 <u>Understand and apply</u> foundational epidemiological principles to protect the quality, safety and marketability of foods
Disease Control	Specific Disease Control Programmes & policies	 <u>List and briefly describe</u> regional control programmes for diseases with food safety and quality, or notifiable significance, e.g. tuberculosis, swine fever
	Applied Epidemiology tools	 <u>Use and advise</u> on how and why specific approaches (e.g. vaccination, stamping out) are used for respective specific disease control programs
Technical Skills		
VPH Core Skills	Necropsy & gross pathology	 Perform necropsies on key production species and identify pathologies that compromise fitness for consumption Perform post-mortem abattoir procedures (e.g. organ incision & palpation) on key production species Differentiate normal from abnormal structure and function at the gross level



Curricula Guidelines - 22 Core Courses

- Anatomy & Physiology
- Animal Diseases
- Animal Examination, Diagnostic and Therapeutic Techniques
- Animal Production Systems
- Animal Welfare & Ethology
- Clinical Pathology
- Communication
- Field Biosafety and Biosecurity
- Food Hygiene
- Immunology
- Information Technology Applications

- Laboratory Biosafety and Biosecurity
- Laboratory Diagnostic Techniques
- Microbiology
- Parasitology
- Pathology
- Pharmacology and Toxicology
- Primary Animal Health Care Techniques
- Principles of Disease Control
- Professional Jurisprudence & Ethics
- Quality Management
- Veterinary Public Health



Suggested Courses by Track

- Course Description and Objectives
- Associated Units

- Later tables offer suggested course structures for each Track
- Example Job Descriptions again

Course Name, Description, and Objectives	Unit Name	AH	VPH	Lab
Anatomy and Physiology	Anatomy and Physiology	~	~	~
Anatomy is the study of structures and organ systems of animals at the gross and microscopic level. Physiology is the study of the normal function of living organisms at the biochemical, cellular, and tissue levels.				
Course objectives:				
Students successfully completing the Course will be able to: Identify the structure and function of the major organ systems and corresponding physiological processes Use proper anatomical terminology to describe major organs of each system, their location, and function Compare anatomical and physiological differences across common animal species Understand how anatomical and physiological knowledge can be applied to field practices	Anatomy and Physiology Practicum	~	~	V
Animal Diseases	Zoonoses and Emerging Diseases*	~	~	~
Animal Diseases is the study of specific infectious and non-infectious diseases.	Diseases"			
Course objectives:		4	Si .	54
Students successfully completing the Course will be able to: • Describe and discuss the aetiology, epidemiological patterns, clinical signs, diagnosis, treatment, prevention, control and public health issues for relevant infectious diseases of importance	Infectious Diseases of National Importance	-	-	-
 Describe and discuss the causes, epidemiological patterns clinical signs, diagnosis, treatment, prevention and control, for relevant non-infectious diseases of importance Apply knowledge to recognise a specific disease in the field and suggest approaches to treatment, control and prevention 	Non-infectious Diseases of National Importance	~	~	~
Animal Examination, Diagnostic and Therapeutic Techniques	Animal Handling and Restraint Practicum	V	~	~
The Animal Examination, Diagnostic and Therapeutic Techniques Course provides the practical skills necessary to effectively restrain and clinically examine animals, obtain		100	1000	22
diagnostic specimens and administer treatments. Course objectives: Clinical Examinati		~	83	83
Students successfully completing the Course will be able to:				
 Understand and interpret the behaviour of relevant animal species in relation to effective restraint and personal safety Obtain a clinical history from the animal's keeper 	Specimen Quality Practicum	~	-	-
Examine the animal's environment in the context of a disease occurrence Identify and record physical abnormalities Collect appropriate specimens for diagnosis Conduct basic therapeutic procedures Properly use and care for all equipment and supplies associated with restraint, examination, sampling and treatment	Diagnostic and Therapeutic Techniques Practicum I	~	~	-33
	Diagnostic and Therapeutic Techniques Practicum II	~		8

Intended Use of the Guidelines

- Aim: To produce competent VPPs in a time and resource efficient manner
- Not a strict model Guidelines. Each country should adapt them
 - Workforce needs: production environment, animal species, disease status, etc
 - Regulatory environment, resources
 - Specific teaching approaches / culture
- Other courses may be needed
- Laboratory: often biomedical basis
- Resource limitations:
 - especially for practical training



Intended Use of the Guidelines

- Modular: able to be customised
- No training period or sequencing prescribed
- Two training models recognised:
 - Scaffolded: start with foundational, theoretical science \rightarrow later practical, applied skills
 - Practical: prioritise skills and application -> later backfilling with theoretical knowledge

Assessment:

- "drives learning": as important as teaching topics
- Allows outcomes to be clarified and confirmed
- Intended ("on paper") vs. implemented curriculum (what's taught) vs. achieved curriculum (what's learnt)

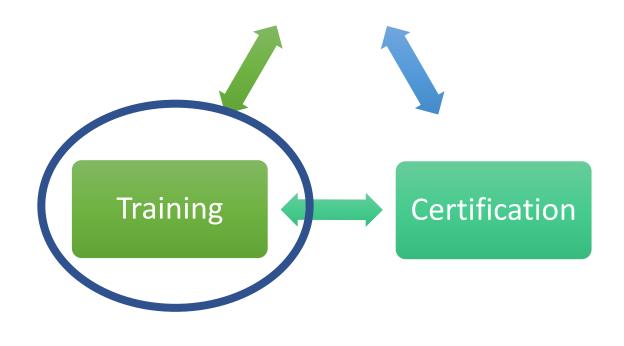


Practical Application –Training Stakeholders

- Veterinary Education Establishments (VEE):
 - New programme and curricula development
 - Benchmarking and reviewing current programmes









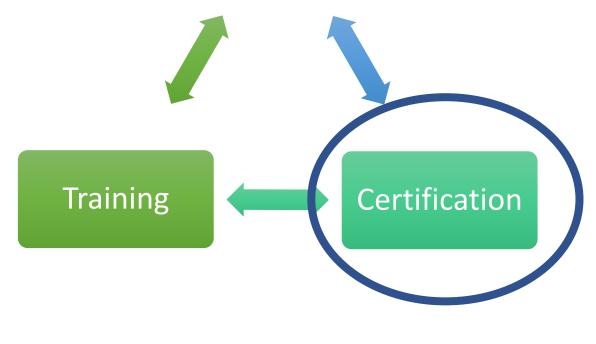
Organisation Mondiale de la Santé World Organisation for Animal Health Organizació Mundial de Sanidad Animal

Practical Application – Regulatory Stakeholders

- VSBs: to establish educational qualifications for different categories of VPP
- Policy makers: to conduct workforce assessments and staff development planning









Organisation Mondiale de la Santé Animale

World Organisation for Animal Health Organización Mundial de Sanidad Animal

Practical Application – Workforce Stakeholders

- Veterinary Services and other employers: guide clear job descriptions, based on competencies, to ensure high quality employees
- VPPs: to assess their own levels of knowledge, skills and abilities, identify needs for improvement, and plan for career development



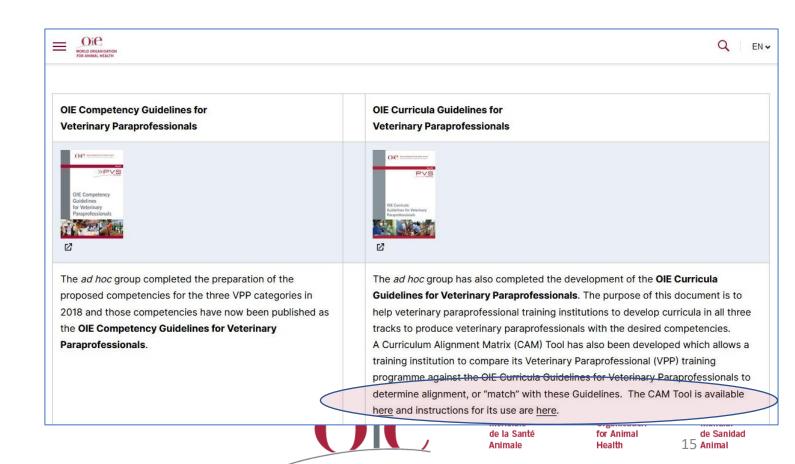






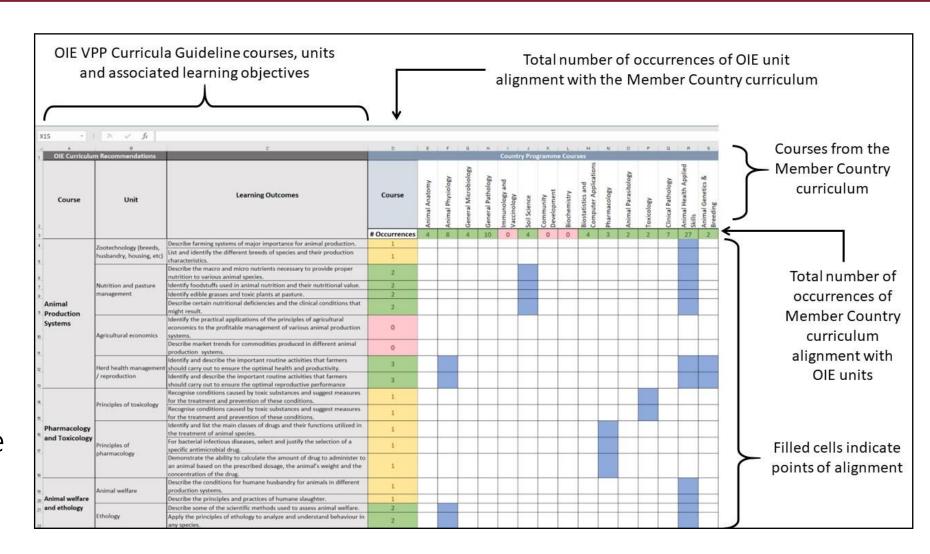
Curriculum Alignment Matrix (CAM)

- Tool to map your course against OIE VPP Curricula Guidelines
- Why?
 - Design of new programs, courses
 - Re-design, updating, review
 - Benchmarking against:
 - OIF Guidelines
 - Local/regional standards
 - Other VEEs
 - Development of local or regional standards
- Noting:
 - OIE docs are <u>Guidelines</u>, not <u>Standards</u>
 - No obligation to match OIE
 - A comparative/discussion tool



What is the CAM tool?

- A matrix that aligns the Learning Objectives of your course with the Learning Objectives of the OIE Curriculum
- Visually indicates the level of similarity between your course and the OIE Curriculum





Group Exercise: Using CAM to define gaps in curriculum of AH track

Materials supplied:

- Template CAM tool excel spreadsheet, as downloaded from the OIE website
- Example Country Curriculum excel spreadsheet representing 4 example courses
- CAM Instructions for Use PDF document

Task:

- Read the Course description for the example course
- Go to the CAM tool, and add the Course code/title to the first empty column
- Identify which OIE Course/Unit Learning Outcomes match the example course
- Place a "1" in the corresponding cell in that course's column
- Continue until all relevant OIE Learning Objectives have been included















Thank you for your attention

