



Food and Agriculture
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european commission for the
control of foot-and-mouth disease



EuFMD Training menu

2020-2021
Phase V

European Commission
for the Control of Foot-and-Mouth Disease

EuFMD Training Menu 2020-2021

FAST diseases

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Summary table of training courses

No	Course	Diseases covered	Places open to purchase by private sector	Training credits allocated per course
1.	Real Time Training	FAST*	Yes	3 credits for 1 participant
2.	Online FMD Emergency Preparation (English)	FMD	Yes	1 credit for 20 participants
3.	Online FMD Emergency Preparation: National, Tailored	FMD	Yes	6 training credits for 150 participants
4.	Online FMD Emergency Preparation: national subsequent national course	FMD	Yes	4 (3) training credits for 150 participants
5.	Online Lumpy Skin Disease (English)	LSD	Yes	1 training credit for 20 participants
6.	Organising Simulation Exercises for animal disease emergencies online	FAST	No	The course was offered at no training credit cost
7.	FAST disease crisis management: Dealing with the psychological aspects and the public perceptions	FAST	Yes	2 training credits for four participants
8.	FAST diseases wildlife surveillance	FAST	Yes	2 training credit for 4 participants (1 attending the full course and 3 attending the online part only)
9.	Depopulation, disposal and cleaning and disinfection – from theory to practice	FAST	Yes	2 training credits for one participant
10.	In-country support missions	Upon request	N/A	Credits to be decided according to the support provided
11.	Support to national simulation exercises	FAST	N/A	1 training credit per country for a multi-country simulation exercise 2 training credits per country for a country-specific simulation exercise
12.	FMD Laboratory Training (English) The Pirbright Institute	FMD	N/A	4 credits for 1 participant
13.	LSD/PPRv Laboratory Training (in English) The Pirbright Institute	LSD; PPR	N/A	4 credits for 1 participant
14.	Regional initiatives	Upon request	N/A	Training credits to be discussed according to the support provided
15.	V -learning course African Swine Fever Preparedness	ASF	N/A	Not under EuFMD training credits scheme
16.	Lumpy skin disease laboratory diagnostic v-learning The Pirbright Institute	LSD	N/A	Not under EuFMD training credits scheme
17.	Foot and Mouth Disease laboratory diagnostic v-learning The Pirbright Institute	FMD	N/A	Not under EuFMD training credits scheme
18.	Bluetongue virus laboratory diagnostic v-learning The Pirbright Institute	Bluetongue	N/A	Not under EuFMD training credits scheme
19.	Peste des petits ruminants v-learning course CIRAD Institute- EU Reference Laboratory for PPR	PPR	N/A	Not under EuFMD training credits scheme

*(depending on the endemic country visited)

Courses covered by EU funds: Training credits scheme

The EuFMD training is demand-led and this training menu takes into account the feedback of multiple trainees in the last years and the requests made by the training focal points in EuFMD member countries.

The overall objective of this training menu is to improve preparedness for management of FMD and similar TADs (“FAST diseases”)* crises by Member Nations and across Europe as a whole.

The EuFMD training courses are practical, interactive and discussion-based. The courses make use of v-learning support to complement and support face-to-face training. The demand-led nature of training means that the exact content of each course can be adapted following communication with the training focal points, particularly in the case of country-specific courses.

This training menu will be implemented from the beginning of 2020 until September 2021. Each country will have 10 training credits to use based on its preferred options from the new training menu and priorities. The countries may decide how they want to spend their training credits. Courses are held if there is sufficient interest from the countries and a minimum number of participants.

One of EuFMD’s priorities is to raise awareness about FAST disease prevention and control and to promote collaboration between the private and public sectors. A number of the courses available offer self-funded places to the private sector, subject to the candidate meeting the requirements established for the specific course.

Countries can also access additional self-funded places in the different courses.

Please contact EuFMD-Training for any further information.

* FAST diseases covered under EuFMD workplan: FMD, PPR, LSD, Sheep and Goat pox, RVF, BEF.

Real Time Training courses

Real Time Training	Training credits	What does the course involve?	Who should take the course?	Eligibility Requirements
<p>1) Real-time Training</p> <p>Tentative date for the next course: Currently on hold due to travel restrictions</p> <p>Location: Kenya, Uganda or another FMD endemic country</p>	<p>3 credits for 1 participant (includes flights and all in-country costs)</p> <p>Some self-funded places in this course will be open to the private sector.</p>	<p>This course gives participants the unique opportunity to visit farms with suspected FMD cases and carry out clinical and epidemiological investigations in “Real Time”. The course is preceded by a three hour v-learning induction course.</p> <p>Topics covered:</p> <ul style="list-style-type: none"> • Clinical and laboratory diagnosis of FMD; • Lesion ageing; • Outbreak investigation and epidemiology; • Biosecurity. <p>Diseases covered:</p> <ul style="list-style-type: none"> • FMD and other TADs (depending on availability of cases in the endemic country visited). <p>This is a five-day intensive course which allows you to see FMD, discuss with farmers, your peers and an expert trainer.</p> <p>NEW: We are planning to broaden the scope of our real time training courses to cover other FAST diseases.</p>	<p>Veterinarians who will be involved actively in diagnosis or control of FMD outbreaks.</p> <p>This course is suitable for veterinarians and stakeholders working in the private and public sector, considering the importance of their role in recognizing clinical signs of FMD and notification of suspicions; applying general and on-farm biosecurity; as well as procedures applied after confirmation of FMD.</p>	<p>Language requirements: Participants should have good working knowledge of English.</p> <p>Other requirements:</p> <p>To be eligible for this course, candidates will have to provide a detailed plan prior to the course on how they will pass the knowledge acquired in the course to colleagues, when they return home (cascade training).</p> <p>The plan should be signed by the nominee and the national training focal point.</p> <p>The content of this course can be used for cascade training, but the EuFMD must be acknowledged.</p>

Online courses

Online courses	Training credits	What does the course involve?	Who should take the course?	Eligibility Requirements
<p>2) Online FMD Emergency Preparation (in English)</p> <p>Starting date of the course: 8 September – 6 October 2020</p> <p>New date to be decided, if there is enough demand</p>	<p>1 credit for 20 participants</p> <p>Some self-funded places in this course will be open to the private sector.</p>	<p>This online course is open for 4 weeks, during which participants must complete approximately 12-15 hours of self-directed study. There will be a one-hour webinar at the beginning and end of the course, and EuFMD expert trainers are available via an online discussion forum to ask and answer questions.</p> <p>Topics covered:</p> <ul style="list-style-type: none"> • Clinical and laboratory diagnosis of FMD; • Lesion ageing; • Outbreak investigation and epidemiology; • Biosecurity; • Overview of control measures for FMD. <p>Diseases covered:</p> <ul style="list-style-type: none"> • FMD 	<p>Veterinarians who will be directly involved in diagnosis or investigating FMD suspicions or outbreaks.</p> <p>This is a useful tool in raising awareness of FMD and the importance of early detection amongst a wider group of practitioners and is particularly suitable for field level government and private veterinarians.</p>	<p>Language requirements: Participants should have a good working knowledge of English.</p> <p>Other requirements: Participants taking this course should disseminate the knowledge acquired as much as possible to other colleagues involved in FMD surveillance or control activities (cascade training).</p> <p>The content of this course can be used for cascade training, but the EuFMD must be acknowledged.</p>

Online courses	Training credits	What does the course involve?	Who should take the course?	Eligibility Requirements
<p>3) Online FMD Emergency Preparation Course: Tailored National Course</p> <p>Date to be decided with the country</p>	<p>6 training credits for 150 participants. Host country should provide one trainer to assist in adaptation of course and moderation of discussion forum</p>	<p>As per point 2) mentioned above</p> <p>The v-learning FMD Emergency Preparation course is translated into the national language. The course is adapted to the national contingency plans and standard operating procedures, with additional content added on request.</p> <p>The host country trainer must assist with proof reading of translated documents, advising on adaptation of the course, and take part in the webinars and discussion forum.</p>	<p>As per point 2) mentioned above.</p> <p>The national FMD Emergency Preparation Course can be a useful tool to link different parts of a country's veterinary service together- e.g. central/headquarters staff with laboratories, field level staff.</p> <p>The online course could also include private veterinarians or non-veterinary industry stakeholders.</p>	<p>Requirements: Participants taking this course should disseminate the knowledge acquired as much as possible to other colleagues involved in FMD surveillance or control activities.</p> <p>The content of this course can be used for cascade training, but the EuFMD must be acknowledged.</p>
<p>4) Online FMD Emergency Preparation Course: subsequent national course</p> <p>Date to be decided with the country</p>	<p>4 (3) training credits for 150 participants</p>	<p>The course developed in point 3) above is re-run for an additional number of participants. The host country trainer is requested to take part in the webinars and discussion forum. From the third time onwards, this course would be offered for three training credits, provided no major changes are included in the course material in relation to the previous time the course was held.</p>	<p>As per point) 3 mentioned above.</p>	<p>Requirements: Participants taking this course should disseminate the knowledge acquired as much as possible to other colleagues involved in FMD surveillance or control activities.</p> <p>The content of this course can be used for cascade training, but the EuFMD must be acknowledged.</p>

Online courses	Training credits	What does the course involve?	Who should take the course?	Eligibility Requirements
<p>5) Online Lumpy Skin Disease course (in English)</p> <p>Date of the course: Pilot course in 8 July -23 August 2020</p> <p>New date to be decided, if there is enough demand</p> <p>This is a course developed in collaboration with FAO-REU</p>	<p>1 credit for 20 participants</p> <p>Some self-funded places in this course will be open to the private sector.</p>	<p>This online course is open for 4 weeks, during which participants must complete approximately 12-15 hours of self-directed study. The course includes live sessions that allow trainees to interact with LSD experts (webinars and/or live discussion sessions). The expert trainers are available via an online discussion forum to ask and answer questions.</p> <p>Topics covered:</p> <ul style="list-style-type: none"> • Introduction to the disease. • Clinical diagnosis • Sampling and laboratory diagnosis • Epidemiology and outbreak investigation • Surveillance • Control Measures with focus on vaccination. <p>Diseases covered:</p> <ul style="list-style-type: none"> • LSD 	<p>The primary target audience are official veterinarians in free countries/regions, particularly in those at higher risk</p> <p>Veterinarians, whether official or private, who will be directly involved in diagnosis or investigating LSD suspicions or outbreaks and in the implementation of surveillance and control measures would also benefit from taking this course.</p> <p>This course aims at providing trainees with an integral overview of LSD surveillance and control, as it covers stages from surveillance for early detection to surveillance to prove freedom of the disease, going through measures taken during an LSD outbreak.</p>	<p>Language requirements: Participants should have good working knowledge of English.</p> <p>Other requirements: Participants taking this course should disseminate the knowledge acquired as much as possible to other colleagues involved in LSD surveillance or control activities.</p> <p>The content of this course can be used for cascade training, but the EuFMD and FAO REU must be acknowledged.</p>

Online courses	Training credits	What does the course involve?	Who should take the course?	Eligibility Requirements
<p>6) Organising Simulation Exercises for animal disease emergencies online course</p> <p>Date of the course: 10 June - 8 July 2020</p>	<p>The course was offered at no training credit cost (four participants per country)</p>	<p>This is an online tutored course that aims at providing participants with a better understanding on simulation exercises and their value as part of the emergency preparedness cycle.</p> <p>This course will be structured in four weeks and will consist of live online sessions, v-learning modules for self-study and assignments to be made in teams;</p> <p>Each week participants will have access to one or two v-learning modules, to supplementary materials (a glossary, templates, guidance documents, examples and videos) and weekly assignments;</p> <p>Topics covered:</p> <ul style="list-style-type: none"> • Introduction to simulation exercises; • The exercise process ; • Develop a concept note for simulation exercises; • Plan the scenario and other exercise documents; • Logistics and conduct of an exercise; • Evaluation plan; • Exercise types; <p>Diseases covered:</p> <ul style="list-style-type: none"> • FAST diseases 	<p>This course is suitable for central/regional veterinary services members who are involved in contingency planning and management of exotic disease outbreaks. It is ideal for those tasked with organising FAST simulation exercises.</p>	<p>Language: Participants should have good working knowledge of English</p> <p>Other requirements: Participants are expected to use the knowledge acquired in this course in national simulation exercises, trainings, workshops or any related activity by disseminating the original materials of the course with their colleagues.</p> <p>The content of this course can be used for cascade training, but the EuFMD must be acknowledged.</p>

Online courses	Training credits	What does the course involve?	Who should take the course?	Eligibility Requirements
<p>7) FAST disease crisis management: Dealing with the psychological aspects and the public perceptions</p> <p>Tentative dates of the course: March 2021</p>	<p>2 training credits for four participant</p> <p>Some self-funded places in this course will be open to the private sector.</p>	<p>The aim of this workshop will be to discuss and provide participants with tools to deal with psychological aspects of disease control and moral convictions regarding animals.</p> <p>An animal health crisis can have a lasting impact on the psychological health and welfare of farmers and veterinarians. Procedures to deal with this aspect of disease control, should be part of contingency plans.</p> <p>In addition to which, moral convictions of the general public concerning animals, can shape decision-making regarding control strategies or can even hamper the implementation of certain control measures. Understanding the ethical values and conflicts related to disease control measures can be of utmost importance to improve internal and external communication during an outbreak.</p> <p>The topics covered include:</p> <ul style="list-style-type: none"> ▪ Psychological impact of animal epidemics in different stakeholders; ▪ Current mechanisms and good practices to provide psychological support during an outbreak; ▪ Ethical conflicts and cultural narratives related to measures for disease control ▪ Clarity of professional roles and corresponding responsibilities ▪ Increased emergency preparedness with regard to role conflicts and societal expectations; ▪ Core values based communication in cases of emergency. <p>Diseases covered:</p> <ul style="list-style-type: none"> • FAST diseases 	<p>This course is suitable for central veterinary service staff and official veterinarians, who would be involved in decision making and management of an FAST disease crisis.</p> <p>It is also suitable for veterinarians and stakeholders working in the private and public sector who are involved in disease control and outbreak management.</p>	<p>Language: Participants should have good working knowledge of English.</p> <p>Other requirements: Participants are expected to use the knowledge acquired in this course in national trainings and workshops when they return home or by disseminating the original materials of the course with their colleagues.</p> <p>Alternatively, participants attending this course will be in a position to implement changes in the contingency plans of their countries of origin to incorporate the knowledge acquired</p> <p>The content of this course can be used for cascade training, but the EuFMD must be acknowledged.</p>

Workshops

Workshops	Training credits	What does the course involve?	Who should take the course?	Eligibility Requirements
<p>8) FAST diseases wildlife surveillance</p> <p>Date of the course:</p> <p>The course will be divided into two parts:</p> <p>The theoretical component (online) which is expected to take place in February 2021</p> <p>The field component (face to face) of the training is expected to occur on June 2021, provided there are not travel restrictions that make this option unfeasible.</p> <p>Location: Ciudad Real, Spain</p> <p>This course is developed with the support of the Hunting Resources Research Institute (IREC) in Ciudad Real, Spain.</p>	<p>2 training credit for 4 participants (one attending the full course and three of them attending the online part only) (includes flights and all in country costs for the participant attending the field part of the course)</p> <p>Some self-funded places in this course will be open to the private sector.</p>	<p>This is a course that aims at providing participants with a better understanding of wildlife surveillance for FAST diseases, as relevant, particularly by using non-invasive methods.</p> <p>The topics covered in the online training include:</p> <ul style="list-style-type: none"> • Contingency planning for FAST diseases and measures in case of confirmation in wild animals; • Wildlife health and management; • The role of wild boar in FAST diseases epidemiology at the wildlife interface with domestic livestock; • Wild boar ecology and disease; • Surveillance to demonstrate freedom of disease in wildlife <p>Practical training:</p> <ul style="list-style-type: none"> • Non-invasive sampling of wild boar for FAST diseases; • Trapping as an alternative method to eradicate FAST diseases in wild boar and other contagious diseases. • Distribution of baits for non-invasive surveillance at salt licks and feeding locations of wild boars and collection of the baits; • Biosafety and biosecurity during the game processing; <p>Clinical examination and sampling of wild boar for animal contagious diseases. Diseases covered:</p> <ul style="list-style-type: none"> • FAST diseases 	<p>This course is suitable for veterinarians and stakeholders working in the private and public sector involved in surveillance activities.</p> <p>This course is also suitable for hunters/representatives of hunting associations who assist the veterinary services in surveillance activities.</p>	<p>Language: Participants should have good working knowledge of English.</p> <p>Other requirements: Participants are expected to use the knowledge acquired in this course in national trainings and workshops when they return home or by disseminating the original materials of the course with their colleagues.</p> <p>Alternatively, participants attending this course will be in a position to implement improvements in the surveillance systems of their countries of origin.</p> <p>The content of this course can be used for cascade training, but the EuFMD must be acknowledged.</p>

Workshops	Training credits	What does the course involve?	Who should take the course?	Eligibility Requirements
<p>9) Depopulation, disposal and cleaning and disinfection – from theory into practice</p> <p>Tentative dates of the course: May 2021</p> <p>Location: TBD</p>	<p>2 training credits for one participant</p> <p>Some self-funded places in this course will be open to the private sector.</p>	<p>The aim of this course will be to discuss practical aspects of in-farm operation when a FAST disease is confirmed in a holding. In particular, the workshop will focus on culling of animals, safe disposal of carcasses and cleaning and disinfection operation, considering key aspects of animal welfare and good practices for preventing the spread of the disease.</p> <p>The topics covered include:</p> <ul style="list-style-type: none"> • Culling methods & Standard Operational Procedures (SOP under development) for different species/ages/husbandry systems/diseases; • Recommended methods for the safe disposal of dead animals; • Principles of cleaning and disinfection; • Disinfectants used in animal disease control programmes and their efficacy; • Disinfectant protocols, requirements and regulations. <p>Diseases covered:</p> <ul style="list-style-type: none"> • FAST diseases 	<p>The course is suitable for veterinarians and stakeholders working in the private and public sector who are involved in disease control and outbreak management.</p>	<p>Language: Participants should have good working knowledge of English.</p> <p>Other requirements: Participants are expected to use the knowledge acquired in this course in national trainings and workshops when they return home or by disseminating the original materials of the course with their colleagues.</p> <p>Alternatively, participants attending this course will be in a position to implement changes in the contingency plans of their countries of origin to incorporate the knowledge acquired.</p> <p>The content of this course can be used for cascade training, but the EuFMD must be acknowledged.</p>

In-country support missions

In-country support missions	Training credits	What will be delivered?	Eligibility Requirements
<p>10) In-country support missions</p> <p>Dates to be decided with the country</p>	<p>Credits to be decided according to the support provided</p>	<p>The new training programme aims at providing a more tailored support to EuFMD members. The EuFMD is open to discuss on how to improve its support to you based on your needs and priorities:</p> <ul style="list-style-type: none"> • Support for a national training initiative? • Training on disease spread modelling? <p>Diseases covered:</p> <ul style="list-style-type: none"> • Upon country request 	<p>Language: Unless otherwise agreed, the expert/s travelling to the country will speak English and therefore staff from the EuFMD member country involved in the in-country work should be able to communicate in English or provide the necessary interpretation.</p>
<p>11) Support to simulation exercises</p> <p>Dates to be decided with the country</p>	<p>1 training credit per country for a multi-country simulation exercise</p> <p>2 training credits per country for a country-specific simulation exercise</p>	<p>EuFMD will assist the countries in the development and implementation of simulation exercises for FMD and other FAST animal diseases. The development and implementation will be supported through the use of a crisis simulation software and remotely assisted.</p> <p>The aim of these online table-top exercises will be to test different parts of contingency plans by simulating a FAST disease outbreak. The specific objectives of each exercise will be decided together with the participating country/ies (e.g. stamping out operations).</p>	<p>Language: The simulation exercise could take place in the participants' mother tongue.</p>

Laboratory courses

Laboratory courses	Training credits	What does the course involve?	Who should take the course?	Eligibility Requirements
<p>11) FMD Laboratory Training Course (in English)</p> <p>Date of the upcoming course: Currently on hold due to travel restrictions</p> <p>Location: The Pirbright Institute (UK)</p>	<p>4 credits for 1 participant</p>	<p>This is a two week course run by the Pirbright Institute (World Reference Laboratory for FMD).</p> <p>The course will provide a thorough understanding of current diagnostic techniques for FMDV. In addition, the course will discuss the clinical and pathological signs associated with FMDV infection, the current distribution of FMDV worldwide, transmission of FMDV, and molecular characterisation of FMDV.</p> <p>The course will be delivered through a series of seminars, an v-Learning package, practical demonstrations and hands-on practical work in the BSL3 laboratory.</p> <p>To find additional information about the contentment of this course and other details, please check: https://www.pirbright.ac.uk/instructor-led-training/diagnosis-foot-and-mouth-disease</p> <p>Diseases covered:</p> <ul style="list-style-type: none"> • FMD 	<p>This course is designed for laboratory staff or those who have a limited knowledge of foot-and-mouth disease virus (FMDV) and who will be responsible for implementing FMDV diagnostic techniques within the laboratory. This course is not suitable for research or group leaders.</p>	<p>Language: Participants should have good working knowledge of English</p> <p>Other requirements: Participants should have an understanding of virology and related methodologies.</p> <p>Participants taking this course should disseminate the knowledge acquired as much as possible to other colleagues involved in FMD laboratory diagnostic.</p>

Laboratory courses	Training credits	What does the course involve?	Who should take the course?	Eligibility Requirements
<p>12) LSD/PPRv Laboratory Training Course (in English)</p> <p>Date of the upcoming course: TBD</p> <p>Location: The Pirbright Institute (UK)</p>	<p>4 credits for 1 participant</p>	<p>This is a two week course run by the Pirbright Institute.</p> <p>The course will offer a thorough understanding of the work undertaken in a diagnostic laboratory accredited to ISO/IEC 17025. In addition, the course will provide an overview of LSD and PPR.</p> <p>Participants will get an overview of the laboratories quality management system and the course will be delivered through a series of seminars, practical demonstrations and hands-on practical work.</p> <p>This training will provide a thorough understanding of current diagnostic techniques for LSD and PPR, including the following practical diagnostic tests:</p> <ul style="list-style-type: none"> • ELISA • Virus isolation • Real-time (RT-)PCR • Sequencing set-up <p>Diseases covered:</p> <ul style="list-style-type: none"> • LSD • PPR 	<p>This course is designed for technicians who work within a diagnostic laboratory and are responsible for implementing and validating diagnostic techniques. This course is not suitable for research or group leaders.</p>	<p>Language: Participants should have good working knowledge of English</p> <p>Other requirements: Participants should have an understanding of virology and related methodologies.</p> <p>Participants taking this course should disseminate the knowledge acquired as much as possible to other colleagues involved in LSD/PPR laboratory diagnostic.</p>

Regional initiatives

In-country support missions	Training credits	What will be delivered?	What are the benefits of this option?
<p>13) Regional initiatives</p> <p>Dates to be decided with the countries involved</p>	<p>Training credits to be discussed based on the support provided</p>	<p>Through regional initiatives, the EuFMD aims to support the neighbouring countries with a tailored course, which will meet their specific needs to increase preparedness of FAST diseases.</p> <p>During Phase IV, EuFMD supported regional initiatives such as joint simulation exercises.</p> <p>The EuFMD believes that regional initiatives are extremely valuable to share good practices and improve collaboration across borders therefore encourages countries to consider this option of our training menu.</p> <p>Diseases covered:</p> <ul style="list-style-type: none"> • Upon country request 	<p>Regional initiatives aim at strengthening the relationship between neighbouring countries in preparedness and control of FMD and other FAST diseases and furthermore to improve the preparedness of the individual Member Nations.</p> <p>If you are interested in implementing a joint activity with a neighbouring country, please inform EuFMD.</p>

Courses not covered by EU funds and not under the EuFMD's training credits scheme

Courses developed by FAO REU

Other courses supported by EuFMD - not covered by EU funds	Training credits	What does the course involve?	Who should take the course?	Eligibility Requirements
<p>14) V – learning course African Swine Fever Preparedness</p>	<p>This course has been developed by FAO Regional Office for Europe and Central Asia due to the concern over ASF and is not covered by EU funds, therefore is not under our training credits scheme.</p>	<p>This course is designed to build capacity in the diagnosis and investigation of African swine fever (ASF) outbreaks together with the implementation of prevention or control measures.</p> <p>This is four a week interactive course where expert trainers are available via an online discussion forum to ask and answer questions.</p> <p>Through this course the participants will have the opportunity to learn about:</p> <ul style="list-style-type: none"> • pathogenesis and clinical diagnosis on the disease • laboratory diagnosis and outbreak investigation • prevention and control • ASF in Wild Boar <p>Diseases covered:</p> <ul style="list-style-type: none"> • ASF 	<p>The target audience for this training course are primarily government veterinarians working in countries that are at risk of ASF or currently experiencing outbreaks. It may also be of interest to private veterinarians and pig industry representatives.</p>	<p>Language: Participants should have good working knowledge of English.</p> <p>Other requirements: Participants taking this course should disseminate the knowledge acquired as much as possible to other colleagues involved in ASF surveillance or control activities.</p> <p>The content of this course can be used for cascade training, but the FAO REU must be acknowledged.</p>

Suggested v-learning courses offered by EU/FAO Reference Laboratories

Suggested v-learning courses offered by EU/FAO Reference Laboratories	Training credits	What will be delivered?	Who should take the course?	Eligibility Requirements
<p>15) Lumpy skin disease laboratory diagnostic v-learning</p> <p>The Pirbright Institute</p>	<p>This course is not part of our training credits scheme. The cost of the course is £150 per participant.</p> <p>For more information on the course please check the below link: https://www.pirbright.ac.uk/e-learning-courses/lumpy-skin-disease-laboratory-diagnostics-e-learning</p>	<p>The course will provide a thorough understanding of current diagnostic techniques for LSDV. In addition, the course will discuss the clinical and pathological signs associated with LSD infection, the current distribution and transmission of LSDV, and molecular characterization of the virus.</p> <p>Topics covered:</p> <ul style="list-style-type: none"> • Pathogenesis and spread of LSD • Clinical diagnosis of LSD • LSD Virus detection • LSD serology • Quality assurance • Biosafety and biosecurity in the LSD laboratory <p>Diseases covered:</p> <ul style="list-style-type: none"> • LSD 	<p>This course is designed for laboratory staff responsible for implementing lumpy skin disease virus (LSDV) diagnostic techniques. However, the modules provide an interesting and informative summary of all aspects of LSDV and the course will therefore also appeal to those with a more general interest in the virus.</p>	<p>Language: Participants should have good working knowledge of English.</p>

Suggested v-learning courses offered by EU/FAO Reference Laboratories	Training credits	What will be delivered?	Who should take the course?	Eligibility Requirements
<p>16) Foot and Mouth Disease laboratory diagnostic v-learning</p> <p>The Pirbright Institute</p>	<p>This course is not part of our training credits scheme. The cost of the course is £250 per participant.</p> <p>For more information on the course please check the below link: https://www.pirbright.ac.uk/e-learning-courses/foot-and-mouth-disease-laboratory-diagnostics-e-learning</p>	<p>The course will provide a thorough understanding of current diagnostic techniques for FMDV. In addition, the course will discuss the clinical and pathological signs associated with FMDV infection, the current distribution and transmission of FMDV, and molecular characterization of the virus.</p> <p>Topics covered include:</p> <ul style="list-style-type: none"> • pathogenesis and spread of FMD • clinical diagnosis of FMD • ageing of FMD lesions • Laboratory diagnosis, sample dispatch and receipt • FMD virus detection in the field • FMD serology • Characterization of FMDV by sequencing and vaccine matching • Quality assurance • Biosafety and biosecurity in the FMD laboratory <p>Diseases covered:</p> <ul style="list-style-type: none"> • FMD 	<p>This course is designed for laboratory staff responsible for implementing foot-and-mouth disease virus (FMDV) diagnostic techniques. However, the modules provide an interesting and informative summary of all aspects of FMDV and the course will therefore appeal to those with a more general interest in the virus.</p>	<p>Language: Participants should have good working knowledge of English.</p>

Suggested v-learning courses offered by EU/FAO Reference Laboratories	Training credits	What will be delivered?	Who should take the course?	Eligibility Requirements
<p>17) Bluetongue virus laboratory diagnostic v-learning</p> <p>The Pirbright Institute</p>	<p>This course is not part of our training credits scheme. The cost of the course is £150 per participant.</p> <p>For more information on the course please check the below link: https://www.pirbright.ac.uk/e-learning-courses/bluetongue-virus-laboratory-</p>	<p>The course will provide a thorough understanding of current diagnostic techniques for BTV. In addition, the course will discuss the clinical and pathological signs associated with BTV infection, the current distribution and transmission of BTV, and molecular characterization of the virus.</p> <p>Topics covered include:</p> <ul style="list-style-type: none"> • pathogenesis and spread of BTV • clinical diagnosis of BTV • Laboratory diagnosis, sample dispatch and receipt • Characterization of BTV by sequencing • Quality assurance • Biosafety and biosecurity in the BTV laboratory <p>Diseases covered:</p> <ul style="list-style-type: none"> • Bluetongue 	<p>This course is designed for laboratory staff responsible for implementing Bluetongue disease virus (FMDV) diagnostic techniques.</p>	<p>Language: Participants should have good working knowledge of English.</p>

Suggested v-learning courses offered by EU/FAO Reference Laboratories	Training credits	What will be delivered?	Who should take the course?	Eligibility Requirements
<p>18) Peste des petits ruminants v-learning course</p> <p>CIRAD Institute- EU Reference Laboratory for PPR</p>	<p>This course is not part of our training credits scheme.</p> <p>This is an open course and no payment is needed to attend it.</p> <p>For more information on the course please check the below link: https://eurl-ppr.cirad.fr/FichiersComplementaires/PPR-ENG/co/ppreng_web_GL.html</p>	<p>This PPR v-learning course aims to contribute to the joint FAO – OIE PPR control and eradication strategy and is part of CIRAD's training and education programs on animal health and production.</p> <p>Topics covered:</p> <ul style="list-style-type: none"> • recognize the clinical signs of PPR; • explain the disease: how it is transmitted, the hosts involved; • describe how the virus acts within an infected host; • identify the risk factors and understand the occurrence of epizootic outbreaks of PPR; • alert farmers about preventive health measures; • explain the necessity of preventive vaccination of animals; <p>Diseases covered:</p> <ul style="list-style-type: none"> • PPR 	<p>This course is designed to be used in an independent manner by self-paced learners. It can also be integrated into a training program combining classroom and online learning.</p>	<p>Language: Participants should have good working knowledge of English.</p>