Appendix A

Job task analysis survey

ECBHM 2021 Job Task Analysis Survey

Start of Block: Introduction

ECBHM 2021 Job Task Analysis survey

Dear ECBHM Diplomate,

Every 7-10 years, the ECBHM must conduct a Job Task Analysis (JTA) survey of its members to determine the appropriate construction of the ECBHM annual certifying examination. This process is to ensure that the exam reflects the knowledge required for a minimally competent candidate to become a board-certified expert. You will be asked to rate the importance of a variety of competencies and indicate how often you perform tasks that require it.

The survey will take approximately **60 minutes** to complete. You can exit the survey and resume it later, so you don't need to do it all in one session. **Please note**: you must use the same computer and web browser for the "save and continue" feature to work. Do <u>not</u> clear your web browser's history/cookies until you have completed the entire survey.

Please take the time to fill out the **entire survey** completely and accurately. Your input is invaluable and your involvement has a direct impact on the future of the ECBHM. Thank you for your time and consideration.

End of Block: Introduction

Start of Block: Demographics

Demographics

Presented below are demographic questions used to help evaluate the role of an ECBHM diplomate. All information is held in confidence and is only used to establish a profile of the survey respondent group. Please select only one option for each question, unless otherwise noted.

Year of certification
Have you completed an ECBHM residency?
▼ Yes (1) No (2)
Skip To: Q31 If Have you completed an ECBHM residency? = No
Where and when was your ECBHM residency completed?
Was your ECBHM residency Standard Residency Programme (SRP) or Alternative Residency Programme (ARP)?
▼ SRP (1) ARP (2)
Have you sat the ECBHM exam?
▼ Yes (1) No (2)

Have you supervised ECBHM residents in the past?	
○ Yes (1)	
O No (2)	
Skip To: Q722 If Have you supervised ECBHM residents in the past? = No	
How many residents have you (co)supervised?	
How many ECBHM diplomates are employed in your practice or at your institute?	
Do you train the residents together with other diplomates? O Yes (1)	
O No (2)	
What is your highest degree earned?	

What is your **primary** production system? ▼ Dairy ... Feedlot What percentage of your time do you spend in these production systems? ____ Dairy ____Beef _____Veal Feedlot What other animal species do you work with? Select all that apply. Small ruminants Equine Companion animals Camelids

None

What is your <u>primary</u> area of employment?	
O Academia - Research	
O Academia - Clinical	
O Academia - Non-Clinical	
O Practitioner in the field	
O Pharmaceuticals	
Field consultant	
O Government	
Retired	
Other	
In which country (or countries) do you work? (optional)	
End of Block: Demographics	
Start of Block: Rating scales	

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Rating Scales

This survey includes a comprehensive list of **112 competencies** across **23 content areas**. Please evaluate **each competency** using the following rating scales:

How important is this competency?

Not at all important Slightly important Moderately important Very important Extremely important

How often do you perform tasks that require this competency?

Never

Rarely

Sometimes

Often

Always

If there are any knowledge areas you feel have been **omitted**, please list them in the area provided at the end of the survey.

End of Block: Rating scales

1.1
1. Manage herd problems in cattle, involving both endemic and epidemic or (re-)emerging
disease
1.1 Reproduction Common causes of reduced herd reproductive performance (including abortion) Analysis of basic reproduction data, interpretation of records Logical and evidence-based approach to investigating and improving reproductive performance Organization of fertility control schemes, costs and cost effectiveness Understanding the principles of AI and embryo transfer, its advantages, disadvantages and uses, methods of collection, relevant legislation Infertility in the bull and bull breeding soundness examination
1.1 How important is this competency?
▼ Not at all important (0) Extremely important (4)
1.1 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
1.1 Comments:

1.21. Manage herd problems in cattle, involving both endemic and epidemic or (re-)en disease	nerging
1.2 Mastitis Incidence, prevalence, aetiology, epidemiology, pathology, differential diagratement, control and prevention, costs and cost effectiveness	nosis,
1.2 How important is this competency?	
▼ Not at all important (0) Extremely important (4)	
1.2 How often do you perform tasks that require this competency?	
▼ Never (0) Always (4)	
1.2 Comments:	
1.3	

- 1. Manage herd problems in cattle, involving both endemic and epidemic or (re-)emerging disease
- 1.3 Lameness Incidence, prevalence, aetiology, epidemiology, pathology, differential diagnosis, treatment, control and prevention, costs and cost effectiveness

1.3 How important is this competency?
▼ Not at all important (0) Extremely important (4)
Va
1.3 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
1.3 Comments:

1.4
1. Manage herd problems in cattle, involving both endemic and epidemic or (re-)emerging disease
uisease
1.4 Infectious disease Diseases of cattle which are commonly encountered in Europe, including their cause, epidemiology, prevalence, pathology, differential diagnosis, diagnosis, treatment, control and prevention Notifiable diseases of cattle and their legislation
Parasite control

1.4 How important is this competency?
▼ Not at all important (0) Extremely important (4)
1.4 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
1.4 Comments:
1.5 1. Manage hard problems in cattle involving both andomic and enidemic or (re.) amorging
1. Manage herd problems in cattle, involving both endemic and epidemic or (re-)emerging disease
1.5 Metabolic disorders Incidence, prevalence, aetiology, epidemiology, pathology,
differential diagnosis, treatment, control and prevention
1.5 How important is this competency?
▼ Not at all important (0) Extremely important (4)

1.5 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
1.5 Comments:
1.61. Manage herd problems in cattle, involving both endemic and epidemic or (re-)emerging disease
1.6 Toxicology Incidence, prevalence, aetiology, epidemiology, pathology, differential diagnosis, treatment, control and prevention
1.6 How important is this competency?
▼ Not at all important (0) Extremely important (4)
1.6 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)

1.6 Comments:
1.7 4. Manage hard problems in acttle involving both andomic and anidomic or (re.) amorning
1. Manage herd problems in cattle, involving both endemic and epidemic or (re-)emerging disease
1.7 Calf and youngstock health Colostrum management Neonatology (omphalitis,
sepsis, etc.)Calving management Bovine Respiratory Disease and diarrhoea Incidence, prevalence, aetiology, epidemiology, pathology, differential diagnosis, treatment, control and prevention
1.7 How important is this competency?
▼ Not at all important (0) Extremely important (4)
1.7 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
1.7 Comments:
1.7 COMMENS.

	
End of Block: 1. Manage herd problems in cattle	

2. Design farm-specific herd health monitoring programs for the prevalent health issues in Europe, involving adult cattle and calves
2.1 Define key outcomes
2.1 How important is this competency?
▼ Not at all important (0) Extremely important (4)
2.1 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
2.1 Comments:
2.1 Comments.
2.2
2. Design farm-specific herd health monitoring programs for the prevalent health issues
in Europe, involving adult cattle and calves
2.2 Obtain relevant data

2.2 How important is this competency?
▼ Not at all important (0) Extremely important (4)
2.2 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
2.2 Comments:
<u> </u>
2.32. Design farm-specific herd health monitoring programs for the prevalent health issues in Europe, involving adult cattle and calves
2.3 Manage and interpret data
2.3 How important is this competency?
▼ Not at all important (0) Extremely important (4)

2.3 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
2.3 Comments:
0.4
2.42. Design farm-specific herd health monitoring programs for the prevalent health issues in Europe, involving adult cattle and calves
2. Design farm-specific herd health monitoring programs for the prevalent health issues
2. Design farm-specific herd health monitoring programs for the prevalent health issues in Europe, involving adult cattle and calves
2. Design farm-specific herd health monitoring programs for the prevalent health issues in Europe, involving adult cattle and calves2.4 Use of sensor technology and artificial intelligence
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 2. Design farm-specific herd health monitoring programs for the prevalent health issues in Europe, involving adult cattle and calves 2.4 Use of sensor technology and artificial intelligence 2.4 How important is this competency? ▼ Not at all important (0) Extremely important (4)

3.13. Describe, analyze and advise on commonly encountered housing and feeding for cattle and identify associated risk factors for animal health and welfare	g systems
3.1 Dairy	
3.1 How important is this competency?	
▼ Not at all important (0) Extremely important (4)	
3.1 How often do you perform tasks that require this competency?	
▼ Never (0) Always (4)	
3.1 Comments:	

Start of Block: 3. Describe, analyze and advise on commonly encountered housing and feeding systems

3.23. Describe, analyze and advise on commonly encountered housing and feeding systems for cattle and identify associated risk factors for animal health and welfare
3.2 Cow/calf/suckler herds
3.2 How important is this competency?
▼ Not at all important (0) Extremely important (4)
3.2 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
3.2 Comments:
3.33. Describe, analyze and advise on commonly encountered housing and feeding systems for cattle and identify associated risk factors for animal health and welfare
3.3 Beef fattening units

3.3 How important is this competency?
▼ Not at all important (0) Extremely important (4)
3.3 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
3.3 Comments:
C.O Germinonia.
3.4
3. Describe, analyze and advise on commonly encountered housing and feeding systems for cattle and identify associated risk factors for animal health and welfare
3.4 Feedlots
3.4 How important is this competency?
▼ Not at all important (0) Extremely important (4)

3.4 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
3.4 Comments:
2.5
3.53. Describe, analyze and advise on commonly encountered housing and feeding system.
3. Describe, analyze and advise on commonly encountered housing and feeding system
3. Describe, analyze and advise on commonly encountered housing and feeding system for cattle and identify associated risk factors for animal health and welfare
3. Describe, analyze and advise on commonly encountered housing and feeding systems for cattle and identify associated risk factors for animal health and welfare3.5 Veal
3. Describe, analyze and advise on commonly encountered housing and feeding system for cattle and identify associated risk factors for animal health and welfare 3.5 Veal
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3. Describe, analyze and advise on commonly encountered housing and feeding system for cattle and identify associated risk factors for animal health and welfare 3.5 Veal 3.5 How important is this competency?
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3. Describe, analyze and advise on commonly encountered housing and feeding system for cattle and identify associated risk factors for animal health and welfare 3.5 Veal 3.5 How important is this competency? ▼ Not at all important (0) Extremely important (4)

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	of Block: 3. Describe, analyze and advise on commonly encountered hous ng systems	ing and

4.14. Describe, analyze and advise on bovine nutrition for relevant production systems			
4.1 Knowledge of anatomy, physiology and principles of normal digestion			
4.1 How important is this competency?			
▼ Not at all important (0) Extremely important (4)			
4.1 How often do you perform tasks that require this competency?			
▼ Never (0) Always (4)			
4.1 Comments:			
4.24. Describe, analyze and advise on bovine nutrition for relevant production systems			
4.2 Knowledge of basic nutritional requirements of the cow at different ages and stages of production			

Start of Block: 4. Describe, analyze and advise on bovine nutrition

4.2 How important is this competency?
▼ Not at all important (0) Extremely important (4)
4.2 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
4.2 Comments:
4.3
4. Describe, analyze and advise on bovine nutrition for relevant production systems
4.3 Understand common feeding concepts and principles of diet formulation
4.3 How important is this competency?
▼ Not at all important (0) Extremely important (4)

▼ Never (0) Always (4)	
(-)	
4.3 Comments:	
4.4. Have improved in this comments and 2	
4.4 How important is this competency?	
▼ Not at all important (0) Extremely important (4)	
4.4 How often do you perform tasks that require this competency?	
▼ Never (0) Always (4)	
4.4 Comments:	

4.54. Describe, analyze and advise on bovine nutrition for relevant production systems
4.5 Analyze basic nutrition parameters, identify problems and improve rations
4.5 How important is this competency?
▼ Not at all important (0) Extremely important (4)
4.5 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
4.5 Comments:
4.64. Describe, analyze and advise on bovine nutrition for relevant production systems
4.6 Collect and interpret appropriate samples related to nutrition and metabolism

4.6 How important is this competency?
▼ Not at all important (0) Extremely important (4)
4.6 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
4.6 Comments:
4.0 Comments.
4.7
4. Describe, analyze and advise on bovine nutrition for relevant production systems
4.7 Knowledge of commonly seen diseases with nutritional causes
4.7. Have increased in this account at an average
4.7 How important is this competency?
▼ Not at all important (0) Extremely important (4)

4.7 How often do yo	ou perform tasks that require this competency?	
▼ Never (0) Alwa	ays (4)	
4.7 Comments:		
4.8 4. Describe, analy z	ze and advise on bovine nutrition for relevant produ	iction systems
4. Describe, analyz	ze and advise on bovine nutrition for relevant produ nutritional deficiencies - signs, epidemiology, diagn	-
4. Describe, analyz 4.8 Knowledge of and prevention		osis, correction
4. Describe, analyz	nutritional deficiencies - signs, epidemiology, diagn	osis, correction
4. Describe, analyze 4.8 Knowledge of and prevention 4.8 How important i	nutritional deficiencies - signs, epidemiology, diagn	osis, correction
4. Describe, analyze 4.8 Knowledge of and prevention 4.8 How important i	nutritional deficiencies - signs, epidemiology, diagn	osis, correction
4. Describe, analyze 4.8 Knowledge of and prevention 4.8 How important i	nutritional deficiencies - signs, epidemiology, diagn	osis, correction
4. Describe, analyze 4.8 Knowledge of and prevention 4.8 How important i	nutritional deficiencies - signs, epidemiology, diagn	osis, correction
4.8 Knowledge of and prevention 4.8 How important i ▼ Not at all importa	nutritional deficiencies - signs, epidemiology, diagn	osis, correction
4.8 Knowledge of and prevention 4.8 How important i ▼ Not at all importa	is this competency? ant (0) Extremely important (4) ou perform tasks that require this competency?	osis, correction
4.8 Knowledge of and prevention 4.8 How important i ▼ Not at all importa	is this competency? ant (0) Extremely important (4) ou perform tasks that require this competency?	osis, correction

Start of Block: 5. Understand the basic principles of vaccinology, immunology and immunomodulation
5.15. Understand the basic principles of vaccinology, immunology and immunomodulation
5.1 Knowledge of vaccine types, advantages/disadvantages (inactivated vs liveattenuated; parenteral vs intranasal; bacterins vs subunit, autologous vaccines)
5.1 How important is this competency?
▼ Not at all important (0) Extremely important (4)
5.1 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
5.1 Comments:

5.25. Understand the basic principles of vaccinology, immunology and immunomodulation
5.2 Basic insights in immune response depending on vaccine type used: Th1 vs Th2
5.2 How important is this competency?
▼ Not at all important (0) Extremely important (4)
5.2 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
5.2 Comments:
5.3
5. Understand the basic principles of vaccinology, immunology and immunomodulation
5.3 Calculate a cost-benefit analysis of implementing vaccination programmes

5.3 How important is this competency?
▼ Not at all important (0) Extremely important (4)
5.3 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
5.3 Comments:
5.4
5. Understand the basic principles of vaccinology, immunology and immunomodulation
5.4 Knowledge of EU regulation of vaccines
E. A. Harrison and and in this account damps O
5.4 How important is this competency?
▼ Not at all important (0) Extremely important (4)

5.4 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
5.4 Comments:
5.5
5.5 5. Understand the basic principles of vaccinology, immunology and immunomodulation
5. Understand the basic principles of vaccinology, immunology and immunomodulation
5. Understand the basic principles of vaccinology, immunology and immunomodulation
5. Understand the basic principles of vaccinology, immunology and immunomodulation 5.5 Knowledge of vaccination programs for important diseases
5. Understand the basic principles of vaccinology, immunology and immunomodulation 5.5 Knowledge of vaccination programs for important diseases 5.5 How important is this competency?
5. Understand the basic principles of vaccinology, immunology and immunomodulation 5.5 Knowledge of vaccination programs for important diseases 5.5 How important is this competency?
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 5. Understand the basic principles of vaccinology, immunology and immunomodulation 5.5 Knowledge of vaccination programs for important diseases 5.5 How important is this competency? ▼ Not at all important (0) Extremely important (4) 5.5 How often do you perform tasks that require this competency?
 5. Understand the basic principles of vaccinology, immunology and immunomodulation 5.5 Knowledge of vaccination programs for important diseases 5.5 How important is this competency? ▼ Not at all important (0) Extremely important (4) 5.5 How often do you perform tasks that require this competency?

5.65. Understand the basic principles of vaccinology, immunology and immunomodu	ılation
	iation
5.6 Design/evaluate vaccination protocols in an evidence-based manner	
5.6 How important is this competency?	
▼ Not at all important (0) Extremely important (4)	
5.6 How often do you perform tasks that require this competency?	
▼ Never (0) Always (4)	
5.6 Comments:	

 5.7 How important is this competency? ▼ Not at all important (0) Extremely important (4) 5.7 How often do you perform tasks that require this competency? ▼ Never (0) Always (4) 5.7 Comments:
5.7 How often do you perform tasks that require this competency? ▼ Never (0) Always (4)
▼ Never (0) Always (4)
▼ Never (0) Always (4)
5.7 Comments:
5.7 Comments:

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6.1 6. Understand and apply the principles of biosecurity tailored to the farm and at a larger (inter)national level
6.1 Cleaning and disinfection (including spectra of disinfectants)
6.1 How important is this competency?
▼ Not at all important (0) Extremely important (4)
6.1 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
6.1 Comments:
6.2 6. Understand and apply the principles of biosecurity tailored to the farm and at a larger (inter)national level
6.2 Control of human and animal trade/movement

Start of Block: 6. Understand and apply the principles of biosecurity

6.2 How important is this competency?
▼ Not at all important (0) Extremely important (4)
6.2 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
6.2 Comments:
·
6.3
6. Understand and apply the principles of biosecurity tailored to the farm and at a larger (inter)national level
6.3 Purchase management and quarantaine
4
6.3 How important is this competency?
6.3 How important is this competency?

6.3 How often do you perform tasks that require this competency?	
▼ Never (0) Always (4)	
6.3 Comments:	
6.4 6. Understand and apply the principles of biosecurity tailored to the farm and at a lar	gor
6.46. Understand and apply the principles of biosecurity tailored to the farm and at a lar (inter)national level	ger
6. Understand and apply the principles of biosecurity tailored to the farm and at a lar	ger
6. Understand and apply the principles of biosecurity tailored to the farm and at a lar (inter)national level	ger
6. Understand and apply the principles of biosecurity tailored to the farm and at a lar (inter)national level	ger
 6. Understand and apply the principles of biosecurity tailored to the farm and at a lar (inter)national level 6.4 Principles of infectious disease management 	ger
6. Understand and apply the principles of biosecurity tailored to the farm and at a lar (inter)national level 6.4 Principles of infectious disease management 6.4 How important is this competency?	ger
6. Understand and apply the principles of biosecurity tailored to the farm and at a lar (inter)national level 6.4 Principles of infectious disease management 6.4 How important is this competency?	ger
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6. Understand and apply the principles of biosecurity tailored to the farm and at a lar (inter)national level 6.4 Principles of infectious disease management 6.4 How important is this competency? ▼ Not at all important (0) Extremely important (4) 6.4 How often do you perform tasks that require this competency?	ger

6.4 C	Comments:	
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6.5	adorestand and apply the principles of biogeografity tailored to the form and at	a larger
	nderstand and apply the principles of biosecurity tailored to the farm and at r)national level	a larger
6.5 T	ransportation of samples	
6.5 H	low important is this competency?	
▼ No	ot at all important (0) Extremely important (4)	
6.5 H	low often do you perform tasks that require this competency?	
▼ Ne	ever (0) Always (4)	
6.5 C	Comments:	
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End of Block: 6. Understand and apply the principles of biosecurity
Start of Block: 7. Understand, recognize, diagnose and treat individual cattle diseases
7.17. Understand, recognize, diagnose and treat individual cattle diseases and estimate their importance to herd health
7.1 Common diseases
7.1 How important is this competency?
▼ Not at all important (0) Extremely important (4)
7.1 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
7.1 Comments:

7.2

7. Understand, recognize, diagnose and treat individual cattle diseases and estimate their

importance to herd health
7.2 Novel diseases
7.2 How important is this competency?
▼ Not at all important (0) Extremely important (4)
7.2 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
7.2 Comments:
7.3
7. Understand, recognize, diagnose and treat individual cattle diseases and estimate their importance to herd health
7.3 Rare diseases

7.3 How important is this competency?
▼ Not at all important (0) Extremely important (4)
7.3 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
7.3 Comments:
· · · · · · · · · · · · · · · · · · ·
<u> </u>
7.47. Understand, recognize, diagnose and treat individual cattle diseases and estimate their
importance to herd health
7.4 (Pa)amaraina diaggas
7.4 (Re)emerging diseases
7.4 How important is this competency?
▼ Not at all important (0) Extremely important (4)

7.4 How often do you perfo		
▼ Never (0) Always (4)		
7.4 Comments:		
7.5		
7. Understand, recognize importance to herd health		and estimate their
7. Understand, recognize		and estimate their
7. Understand, recognize importance to herd health		and estimate their
7. Understand, recognize importance to herd health	erd health	and estimate their
7. Understand, recognize importance to herd health7.5 Diseases relevant to h	erd health mpetency?	and estimate their
7. Understand, recognize importance to herd health7.5 Diseases relevant to health7.5 How important is this contains the contains and the contains and	erd health mpetency?	and estimate their
7. Understand, recognize importance to herd health7.5 Diseases relevant to health7.5 How important is this contains the contains and the contains and	erd health mpetency?	and estimate their
7. Understand, recognize importance to herd health7.5 Diseases relevant to health7.5 How important is this contains the contains and the contains and	erd health mpetency?	and estimate their
 7. Understand, recognize importance to herd health 7.5 Diseases relevant to health 7.5 How important is this company of the properties of the prop	erd health mpetency?	and estimate their
 7. Understand, recognize importance to herd health 7.5 Diseases relevant to health 7.5 How important is this company of the properties of the prop	erd health mpetency? Extremely important (4)	and estimate their
 7. Understand, recognize importance to herd health 7.5 Diseases relevant to health 7.5 How important is this continuous of the properties of the p	erd health mpetency? Extremely important (4)	and estimate their

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			_

Start of Block: 8. Perform advanced (non-specialist) surgery in cattle
8.1 8. Perform advanced (non-specialist) surgery in cattle and have knowledge of advanced therapeutic and surgical techniques
8.1 Laparotomy
8.1 How important is this competency?
▼ Not at all important (0) Extremely important (4)
8.1 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
8.1 Comments:
8.2 8. Perform advanced (non-specialist) surgery in cattle and have knowledge of advanced
therapeutic and surgical techniques

8.2 Abomasal surgery (conventional and via laparoscopy)

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8.3 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
8.3 Comments:
8.4
8.48. Perform advanced (non-specialist) surgery in cattle and have knowledge of advanced therapeutic and surgical techniques
8. Perform advanced (non-specialist) surgery in cattle and have knowledge of advanced therapeutic and surgical techniques
8. Perform advanced (non-specialist) surgery in cattle and have knowledge of advanced therapeutic and surgical techniques8.4 Intestinal surgery
8. Perform advanced (non-specialist) surgery in cattle and have knowledge of advanced therapeutic and surgical techniques
8. Perform advanced (non-specialist) surgery in cattle and have knowledge of advanced therapeutic and surgical techniques8.4 Intestinal surgery
8. Perform advanced (non-specialist) surgery in cattle and have knowledge of advanced therapeutic and surgical techniques 8.4 Intestinal surgery 8.4 How important is this competency?
8. Perform advanced (non-specialist) surgery in cattle and have knowledge of advanced therapeutic and surgical techniques8.4 Intestinal surgery
8. Perform advanced (non-specialist) surgery in cattle and have knowledge of advanced therapeutic and surgical techniques 8.4 Intestinal surgery 8.4 How important is this competency?
8. Perform advanced (non-specialist) surgery in cattle and have knowledge of advanced therapeutic and surgical techniques 8.4 Intestinal surgery 8.4 How important is this competency?
 8. Perform advanced (non-specialist) surgery in cattle and have knowledge of advanced therapeutic and surgical techniques 8.4 Intestinal surgery 8.4 How important is this competency? ▼ Not at all important (0) Extremely important (4)
 8. Perform advanced (non-specialist) surgery in cattle and have knowledge of advanced therapeutic and surgical techniques 8.4 Intestinal surgery 8.4 How important is this competency? ▼ Not at all important (0) Extremely important (4) 8.4 How often do you perform tasks that require this competency?
 8. Perform advanced (non-specialist) surgery in cattle and have knowledge of advanced therapeutic and surgical techniques 8.4 Intestinal surgery 8.4 How important is this competency? ▼ Not at all important (0) Extremely important (4)

8.4 Comments:	
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8.5	
8. Perform advanced (non-specialist) surgery in cattle and have knowledge of therapeutic and surgical techniques	advanced
8.5 Enucleation	
8.5 How important is this competency?	
▼ Not at all important (0) Extremely important (4)	
8.5 How often do you perform tasks that require this competency?	
▼ Never (0) Always (4)	
8.5 Comments:	
o.5 Comments.	
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8.6 8. Perform advanced (non-specialist) surgery in cattle and have knowledge of advanced therapeutic and surgical techniques
8.6 Dehorning and castration
8.6 How important is this competency?
▼ Not at all important (0) Extremely important (4)
8.6 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
8.6 Comments:
8.6 Comments:
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8.7

8. Perform advanced (non-specialist) surgery in cattle and have knowledge of advanced therapeutic and surgical techniques

8.7 Udder and teat surgery
8.7 How important is this competency?
▼ Not at all important (0) Extremely important (4)
9.7 How often do you perform tacks that require this competency?
8.7 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
8.7 Comments:
8.8 8. Perform advanced (non-specialist) surgery in cattle and have knowledge of advanced therapeutic and surgical techniques
8.8 Claw and limb surgery (tenotomy, amputation, fracture repair, management of tendon and joint diseases)

8.8 How important is this competency?
▼ Not at all important (0) Extremely important (4)
8.8 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
8.8 Comments:
8.9
8. Perform advanced (non-specialist) surgery in cattle and have knowledge of advanced therapeutic and surgical techniques
8.9 Reproductive surgery (i.e. caesarean section)
8.9 How important is this competency?
▼ Not at all important (0) Extremely important (4)

▼ N	ever (0) Always (4)	
8.9 (Comments:	
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9.19. Appropriately use and advise on pain medications and anesthetic techniques
9.1 Principles of pain detection and management
9.1 How important is this competency?
▼ Not at all important (0) Extremely important (4)
9.1 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
9.1 Comments:

9.29. Appropriately use and advise on pain medications and anesthetic techniques
9.2 Effects and side effects of NSAID, GCS, sedatives, anesthetics

Start of Block: 9. Appropriately use and advise on pain medications and anesthetic techniques

9.2 How important is this competency?
▼ Not at all important (0) Extremely important (4)
9.2 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
9.2 Comments:
3.2 Gomments.
9.3
9. Appropriately use and advise on pain medications and anesthetic techniques
9.3 Sedation of calves and adult cattle
9.3 How important is this competency?
▼ Not at all important (0) Extremely important (4)

9.3 How often do you perform tasks that require this competency?	
▼ Never (0) Always (4)	
9.3 Comments:	
9.5 Comments.	
0.4	
9.4 9. Appropriately use and advise on pain medications and anesthetic techniques	
9. Appropriately use and advise on pain medications and anesthetic techniques	
9. Appropriately use and advise on pain medications and anesthetic techniques	
9. Appropriately use and advise on pain medications and anesthetic techniques	
9. Appropriately use and advise on pain medications and anesthetic techniques 9.4 General anaesthesia in calves and adult cattle	
9. Appropriately use and advise on pain medications and anesthetic techniques 9.4 General anaesthesia in calves and adult cattle 9.4 How important is this competency?	
9. Appropriately use and advise on pain medications and anesthetic techniques 9.4 General anaesthesia in calves and adult cattle	
9. Appropriately use and advise on pain medications and anesthetic techniques 9.4 General anaesthesia in calves and adult cattle 9.4 How important is this competency?	
9. Appropriately use and advise on pain medications and anesthetic techniques 9.4 General anaesthesia in calves and adult cattle 9.4 How important is this competency?	
 9. Appropriately use and advise on pain medications and anesthetic techniques 9.4 General anaesthesia in calves and adult cattle 9.4 How important is this competency? ▼ Not at all important (0) Extremely important (4) 	
9. Appropriately use and advise on pain medications and anesthetic techniques 9.4 General anaesthesia in calves and adult cattle 9.4 How important is this competency?	
 9. Appropriately use and advise on pain medications and anesthetic techniques 9.4 General anaesthesia in calves and adult cattle 9.4 How important is this competency? ▼ Not at all important (0) Extremely important (4) 	
 9. Appropriately use and advise on pain medications and anesthetic techniques 9.4 General anaesthesia in calves and adult cattle 9.4 How important is this competency? ▼ Not at all important (0) Extremely important (4) 9.4 How often do you perform tasks that require this competency? 	
 9. Appropriately use and advise on pain medications and anesthetic techniques 9.4 General anaesthesia in calves and adult cattle 9.4 How important is this competency? ▼ Not at all important (0) Extremely important (4) 9.4 How often do you perform tasks that require this competency? 	
 9. Appropriately use and advise on pain medications and anesthetic techniques 9.4 General anaesthesia in calves and adult cattle 9.4 How important is this competency? ▼ Not at all important (0) Extremely important (4) 9.4 How often do you perform tasks that require this competency? ▼ Never (0) Always (4) 	
 9. Appropriately use and advise on pain medications and anesthetic techniques 9.4 General anaesthesia in calves and adult cattle 9.4 How important is this competency? ▼ Not at all important (0) Extremely important (4) 9.4 How often do you perform tasks that require this competency? 	

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9.5 9. A_l	ppropriately use and advise on pain medications and anesthetic techniques	S
9 5 F	Procedures of regional and local anaesthesia	
J.U 1	Tooleanes of regional and local anaceticsia	
0 5 1	Low important in this commutation of	
	How important is this competency?	
▼ N	ot at all important (0) Extremely important (4)	
9.5 F	How often do you perform tasks that require this competency?	
▼ N	ever (0) Always (4)	
9.5 C	Comments:	
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9.69. Appropriately use and advise on pain medications and anesthetic techniques	
9.6 Legal requirements (EU)	
9.6 How important is this competency?	
▼ Not at all important (0) Extremely important (4)	
9.6 How often do you perform tasks that require this competency?	
▼ Never (0) Always (4)	
9.6 Comments:	
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End of Block: 9. Appropriately use and advise on pain medications and anesth techniques	netic

10.1 10. Advise, promote and improve animal welfare (beyond the legal minimal EU requirements)
10.1 Legislation and codes of practice affecting cattle welfare
10.1 How important is this competency?
▼ Not at all important (0) Extremely important (4)
10.1 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
10.1 Comments:

40.0
10.2 10. Advise, promote and improve animal welfare (beyond the legal minimal EU requirements)
10.2 Interaction with stakeholders involved in cattle welfare

Start of Block: 10. Advise, promote and improve animal welfare

10.2 How important is this competency?
▼ Not at all important (0) Extremely important (4)
10.2 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
10.2 Comments:
10.2 Comments:
40.0
10.3 10. Advise, promote and improve animal welfare (beyond the legal minimal EU requirements)
10.3 Normal behavioural patterns and their alteration by stress, pain and disease
10.3 How important is this competency?
▼ Not at all important (0) Extremely important (4)
Thouast all important (0) Extremely important (4)

10.3 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
40.0.0
10.3 Comments:
10.4 10. Advise, promote and improve animal welfare (beyond the legal minimal EU
10. Advise, promote and improve animal welfare (beyond the legal minimal EU
10. Advise, promote and improve animal welfare (beyond the legal minimal EU requirements)
10. Advise, promote and improve animal welfare (beyond the legal minimal EU requirements)10.4 Welfare in relation to stockmanship, housing nutrition and breeding
10. Advise, promote and improve animal welfare (beyond the legal minimal EU requirements) 10.4 Welfare in relation to stockmanship, housing nutrition and breeding 10.4 How important is this competency?
10. Advise, promote and improve animal welfare (beyond the legal minimal EU requirements)10.4 Welfare in relation to stockmanship, housing nutrition and breeding
10. Advise, promote and improve animal welfare (beyond the legal minimal EU requirements) 10.4 Welfare in relation to stockmanship, housing nutrition and breeding 10.4 How important is this competency?
10. Advise, promote and improve animal welfare (beyond the legal minimal EU requirements) 10.4 Welfare in relation to stockmanship, housing nutrition and breeding 10.4 How important is this competency?
10. Advise, promote and improve animal welfare (beyond the legal minimal EU requirements) 10.4 Welfare in relation to stockmanship, housing nutrition and breeding 10.4 How important is this competency?
10. Advise, promote and improve animal welfare (beyond the legal minimal EU requirements) 10.4 Welfare in relation to stockmanship, housing nutrition and breeding 10.4 How important is this competency? ▼ Not at all important (0) Extremely important (4)

10.4	Comments:	
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10.5		
	Advise, promote and improve animal welfare (beyond the legal minimal EU uirements)	
10.5	Design tailored monitoring programs	
10 E	Llaurinan autant in this commeton as Q	
	How important is this competency?	
▼ N	lot at all important (0) Extremely important (4)	
10.5	How often do you perform tasks that require this competency?	
▼ N	lever (0) Always (4)	
10.5	Comments:	
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0.6 <mark>0. Advise, promote a</mark> equirements)	nd improve animal welfare (beyond the legal minimal EU
0.6 Impact of biotech	nology on welfare
0.6 How important is t	nis competency?
▼ Not at all important (0) Extremely important (4)
10 C Have often de very	
·	perform tasks that require this competency?
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10.6 How often do you ▼ Never (0) Always	
▼ Never (0) Always	
▼ Never (0) Always	
▼ Never (0) Always	
▼ Never (0) Always	
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11.1 11. Understand epidemiological principles and apply to data analysis
11.1 Frequency data, incidence and prevalence
11.1 How important is this competency?
▼ Not at all important (0) Extremely important (4)
11.1 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
11.1 Comments:
 11.2 11. Understand epidemiological principles and apply to data analysis 11.2 Sample size, association vs causation, confounding, bias, odds ratios, relative risk, attributable risk, sampling strategies

Start of Block: 11. Understand epidemiological principles and apply to data analysis

11.2 How important is this competency?
▼ Not at all important (0) Extremely important (4)
11.2 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
11.2 Comments:
The comments.
11.3
11. Understand epidemiological principles and apply to data analysis
11.3 Study design
The study design
11.3 How important is this competency?
▼ Not at all important (0) Extremely important (4)

11.3 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
44.2 Commontes
11.3 Comments:

11.4 11. Understand epidemiological principles and apply to data analysis
11.4 11. Understand epidemiological principles and apply to data analysis
11. Understand epidemiological principles and apply to data analysis
11. Understand epidemiological principles and apply to data analysis
11. Understand epidemiological principles and apply to data analysis 11.4 Statistical tests - choosing an appropriate test
11. Understand epidemiological principles and apply to data analysis 11.4 Statistical tests - choosing an appropriate test 11.4 How important is this competency?
11. Understand epidemiological principles and apply to data analysis 11.4 Statistical tests - choosing an appropriate test
11. Understand epidemiological principles and apply to data analysis 11.4 Statistical tests - choosing an appropriate test 11.4 How important is this competency?
11. Understand epidemiological principles and apply to data analysis 11.4 Statistical tests - choosing an appropriate test 11.4 How important is this competency?
11. Understand epidemiological principles and apply to data analysis 11.4 Statistical tests - choosing an appropriate test 11.4 How important is this competency?
11. Understand epidemiological principles and apply to data analysis 11.4 Statistical tests - choosing an appropriate test 11.4 How important is this competency?
 11. Understand epidemiological principles and apply to data analysis 11.4 Statistical tests - choosing an appropriate test 11.4 How important is this competency? ▼ Not at all important (0) Extremely important (4)
 11. Understand epidemiological principles and apply to data analysis 11.4 Statistical tests - choosing an appropriate test 11.4 How important is this competency? ▼ Not at all important (0) Extremely important (4) 11.4 How often do you perform tasks that require this competency?
 11. Understand epidemiological principles and apply to data analysis 11.4 Statistical tests - choosing an appropriate test 11.4 How important is this competency? ▼ Not at all important (0) Extremely important (4) 11.4 How often do you perform tasks that require this competency?
 11. Understand epidemiological principles and apply to data analysis 11.4 Statistical tests - choosing an appropriate test 11.4 How important is this competency? ▼ Not at all important (0) Extremely important (4) 11.4 How often do you perform tasks that require this competency? ▼ Never (0) Always (4)
 11. Understand epidemiological principles and apply to data analysis 11.4 Statistical tests - choosing an appropriate test 11.4 How important is this competency? ▼ Not at all important (0) Extremely important (4) 11.4 How often do you perform tasks that require this competency?

11.5	•	
	Understand epidemiological principles and apply to data analysis	
11.5	Interpretation of tests results (Se, SP, PPV, NPV)	
11.5	6 How important is this competency?	
▼ N	lot at all important (0) Extremely important (4)	
11.5	6 How often do you perform tasks that require this competency?	
▼ N	lever (0) Always (4)	
11.5	5 Comments:	

End of Block: 11. Understand epidemiological principles and apply to data analysis

12.1 12. Understand and implement the principles of evidence-based veterinary medical contents.	cine
12.1 Understand the principles of and the reasons for conducting clinical audits farm practice level (Clinical audit is a quality improvement process that seeks to imprepatient care and outcomes through systematic review of care against explicit criteria. V indicated, changes are implemented and further monitoring is used to confirm improve care delivered to patients.).	ove Vhere
12.1 How important is this competency?	
Not at all important (0) Extremely important (4)	
12.1 How often do you perform tasks that require this competency?	
▼ Never (0) Always (4)	
12.1 Comments:	

Start of Block: 12. Understand and implement the principles of evidence-based veterinary

12.2

medicine

12. Understand and implement the principles of evidence-based veterinary medicine

12.2 How ir	mportant is this competency?	
▼ Not at al	l important (0) Extremely important (4)	
12.2 How o	often do you perform tasks that require this competency?	
▼ Never (0	0) Always (4)	
12.2 Comm	nents:	

13.1 13. Measure antimicrobial use (including but not limited to antibiotics, chemotherapeutics and anti-parasitic drugs) and apply the principles of rationa antimicrobial use	al
13.1 Knowledge of current recommendation of the prudent use of drugs	
13.1 How important is this competency?	
▼ Not at all important (0) Extremely important (4)	
13.1 How often do you perform tasks that require this competency?	
▼ Never (0) Always (4)	
13.1 Comments:	
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Start of Block: 13. Measure antimicrobial use and apply the principles of rational

13.2

antimicrobial use

13. Measure antimicrobial use (including but not limited to antibiotics, chemotherapeutics and anti-parasitic drugs) and apply the principles of rational antimicrobial use

13.2 Basic knowledge of potential for residues in animal products and the environment
13.2 How important is this competency?
▼ Not at all important (0) Extremely important (4)
13.2 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
13.2 Comments:
13.3 13. Measure antimicrobial use (including but not limited to antibiotics, chemotherapeutics and anti-parasitic drugs) and apply the principles of rational antimicrobial use
13.3 Understand the basics of bacterial culturing, microbial identification and antimicrobial susceptibility testing

13.3 How important is this competency?
▼ Not at all important (0) Extremely important (4)
13.3 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
13.3 Comments:
13.3 Comments.

13.4 13. Measure antimicrobial use (including but not limited to antibiotics,
chemotherapeutics and anti-parasitic drugs) and apply the principles of rational
antimicrobial use
13.4 Understand the basics of efficacy testing of antiparasitic drugs
13.4 How important is this competency?
▼ Not at all important (0) Extremely important (4)

13.4 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
13.4 Comments:
13.5
13.5 13. Measure antimicrobial use (including but not limited to antibiotics, chemotherapeutics and anti-parasitic drugs) and apply the principles of rational antimicrobial use
13. Measure antimicrobial use (including but not limited to antibiotics, chemotherapeutics and anti-parasitic drugs) and apply the principles of rational
13. Measure antimicrobial use (including but not limited to antibiotics, chemotherapeutics and anti-parasitic drugs) and apply the principles of rational antimicrobial use
 13. Measure antimicrobial use (including but not limited to antibiotics, chemotherapeutics and anti-parasitic drugs) and apply the principles of rational antimicrobial use 13.5 Knowledge of application of drugs to minimize development of resistance
 13. Measure antimicrobial use (including but not limited to antibiotics, chemotherapeutics and anti-parasitic drugs) and apply the principles of rational antimicrobial use 13.5 Knowledge of application of drugs to minimize development of resistance 13.5 How important is this competency?
 13. Measure antimicrobial use (including but not limited to antibiotics, chemotherapeutics and anti-parasitic drugs) and apply the principles of rational antimicrobial use 13.5 Knowledge of application of drugs to minimize development of resistance 13.5 How important is this competency?
 13. Measure antimicrobial use (including but not limited to antibiotics, chemotherapeutics and anti-parasitic drugs) and apply the principles of rational antimicrobial use 13.5 Knowledge of application of drugs to minimize development of resistance 13.5 How important is this competency?
 13. Measure antimicrobial use (including but not limited to antibiotics, chemotherapeutics and anti-parasitic drugs) and apply the principles of rational antimicrobial use 13.5 Knowledge of application of drugs to minimize development of resistance 13.5 How important is this competency?
 13. Measure antimicrobial use (including but not limited to antibiotics, chemotherapeutics and anti-parasitic drugs) and apply the principles of rational antimicrobial use 13.5 Knowledge of application of drugs to minimize development of resistance 13.5 How important is this competency? ▼ Not at all important (0) Extremely important (4)
13. Measure antimicrobial use (including but not limited to antibiotics, chemotherapeutics and anti-parasitic drugs) and apply the principles of rational antimicrobial use 13.5 Knowledge of application of drugs to minimize development of resistance 13.5 How important is this competency? ▼ Not at all important (0) Extremely important (4) 13.5 How often do you perform tasks that require this competency?

13.5 Comments:
13.6
13. Measure antimicrobial use (including but not limited to antibiotics,
chemotherapeutics and anti-parasitic drugs) and apply the principles of rational
antimicrobial use
13.6 Knowledge of methods of quantification of antimicrobial use (dose based vs. mass
based)
13.6 How important is this competency?
▼ Not at all important (0) Extremely important (4)
13.6 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
13.6 Comments:

13.7 13. Measure antimicrobial use (including but not limited to antibiotics, chemotherapeutics and anti-parasitic drugs) and apply the principles of rationa antimicrobial use
13.7 Knowledge of variations in antimicrobial use in different cattle industries a different EU countries
13.7 How important is this competency?
▼ Not at all important (0) Extremely important (4)
13.7 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
13.7 Comments:

13.8 13. Measure antimicrobial use (including but not limited to antibiotics, chemotherapeutics and anti-parasitic drugs) and apply the principles of rational antimicrobial use
13.8 Basic knowledge of the potential role of the cattle sector in resistance selection in humans
13.8 How important is this competency?
▼ Not at all important (0) Extremely important (4)
13.8 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
13.8 Comments:
End of Block: 13. Measure antimicrobial use and apply the principles of rational antimicrobial use

14.1 14. Understand principles of paraclinical / ancillary disciplines
14.1 Microbiology
14.1 How important is this competency?
▼ Not at all important (0) Extremely important (4)
14.1 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
14.1 Comments:
14.2 14. Understand principles of paraclinical / ancillary disciplines
14.2 Pharmacology / pharmacokinetics

Start of Block: 14. Understand principles of paraclinical / ancillary disciplines

14.2 How important is this competency?
▼ Not at all important (0) Extremely important (4)
14.2 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
14.2 Comments:
14.2 Comments.
14.3
14. Understand principles of paraclinical / ancillary disciplines
14.3 Biochemistry (e.g. water analysis)
The Breakfill (e.g. mater analysis)
14.3 How important is this competency?
▼ Not at all important (0) Extremely important (4)

14.3 How often do you perform tasks that require this competency?	
▼ Never (0) Always (4)	
14.3 Comments:	
14.4	
14.4 14. Understand principles of paraclinical / ancillary disciplines	
	: y
14. Understand principles of paraclinical / ancillary disciplines14.4 Appropriate tests available for common diseases (including principles of sensitivity)	У
14. Understand principles of paraclinical / ancillary disciplines14.4 Appropriate tests available for common diseases (including principles of sensitivity and specificity)	:у
14. Understand principles of paraclinical / ancillary disciplines 14.4 Appropriate tests available for common diseases (including principles of sensitivity and specificity)	У
14.4 How important is this competency?	:y
14.4 How important is this competency?	
14.4 How important is this competency?	y
14.4 How important is this competency?	
 14. Understand principles of paraclinical / ancillary disciplines 14.4 Appropriate tests available for common diseases (including principles of sensitivity and specificity) 14.4 How important is this competency? ▼ Not at all important (0) Extremely important (4) 	ty
 14. Understand principles of paraclinical / ancillary disciplines 14.4 Appropriate tests available for common diseases (including principles of sensitivity and specificity) 14.4 How important is this competency? ▼ Not at all important (0) Extremely important (4) 14.4 How often do you perform tasks that require this competency? 	ty

15.1 15. Use and interpret diagnostic tests and procedures for individual animal and diagnosis and application as part of a herd health program (e.g. purchase control	
15.1 Take appropriate samples	
15.1 How important is this competency?	
▼ Not at all important (0) Extremely important (4)	
15.1 How often do you perform tasks that require this competency?	
▼ Never (0) Always (4)	
15.1 Comments:	

Start of Block: 15. Use and interpret diagnostic tests and procedures for individual animal and herd diagnosis

15.2 15. Use and interpret diagnostic tests and procedures for individual animal and herd diagnosis and application as part of a herd health program (e.g. purchase control)
15.2 Select most appropriate test(s)
15.2 How important is this competency?
▼ Not at all important (0) Extremely important (4)
15.2 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
15.2 Comments:
15.3 15. Use and interpret diagnostic tests and procedures for individual animal and herd diagnosis and application as part of a herd health program (e.g. purchase control)
15.3 Describe tests strengths and weaknesses

15.3 How important is this competency?
▼ Not at all important (0) Extremely important (4)
15.3 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
15.3 Comments:
Tota Commence.
15.4
15. Use and interpret diagnostic tests and procedures for individual animal and herd diagnosis and application as part of a herd health program (e.g. purchase control)
15.4 Interpret routine laboratory diagnostics (haematology and clinical pathology)
15.4 How important is this competency?
▼ Not at all important (0) Extremely important (4)

15.4 How often do you perform tasks tha	t require this competency?
▼ Never (0) Always (4)	
15.4 Comments:	
15. Use and interpret diagnostic tests	and procedures for individual animal and herd health program (e.g. purchase control)
15. Use and interpret diagnostic tests diagnosis and application as part of a 15.5 Interpret routine analysis of differ	herd health program (e.g. purchase control) rent body fluids (peritoneal fluid, milk, synovial
diagnosis and application as part of a 15.5 Interpret routine analysis of differ fluid, cerebrospinal fluid, urine, rumer	herd health program (e.g. purchase control) rent body fluids (peritoneal fluid, milk, synovial
15. Use and interpret diagnostic tests diagnosis and application as part of a 15.5 Interpret routine analysis of differ fluid, cerebrospinal fluid, urine, rumer 15.5 How important is this competency?	herd health program (e.g. purchase control) rent body fluids (peritoneal fluid, milk, synovial n fluid)
15. Use and interpret diagnostic tests diagnosis and application as part of a 15.5 Interpret routine analysis of differ fluid, cerebrospinal fluid, urine, rumer 15.5 How important is this competency?	herd health program (e.g. purchase control) rent body fluids (peritoneal fluid, milk, synovial n fluid)
15. Use and interpret diagnostic tests diagnosis and application as part of a 15.5 Interpret routine analysis of differ fluid, cerebrospinal fluid, urine, rumer 15.5 How important is this competency?	herd health program (e.g. purchase control) rent body fluids (peritoneal fluid, milk, synovial n fluid)
15. Use and interpret diagnostic tests diagnosis and application as part of a 15.5 Interpret routine analysis of differ fluid, cerebrospinal fluid, urine, rumer 15.5 How important is this competency?	herd health program (e.g. purchase control) rent body fluids (peritoneal fluid, milk, synovial n fluid)
15. Use and interpret diagnostic tests diagnosis and application as part of a 15.5 Interpret routine analysis of differ	herd health program (e.g. purchase control) rent body fluids (peritoneal fluid, milk, synovial fluid) n fluid)

16. Apply medical imaging techniques on farm
16.1 Understand imaging techniques which are typically available on farm
16.1 How important is this competency?
▼ Not at all important (0) Extremely important (4)
16.1 How often do you perform tooks that require this competency?
16.1 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
16.1 Comments:

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16.2
16. Apply medical imaging techniques on farm
16.2 Perform and interpret advanced but not specialized imaging
Ultrasonography Focus on but not limited to reproductive, teat, lung,
umbilical, liver and abdominal X-ray Focus on but not limited to orthopedics Basics of health and safety implications

urinary tract, teat Lap 16.2 How important is this compe	etency?
16.2 How important is this compe	etency?
16.2 How important is this compe	etency?
▼ Not at all important (0) Extr	emely important (4)
16.2 How often do you perform to	asks that require this competency?
▼ Never (0) Always (4)	
16.2 Comments:	
-	
End of Block: 16. Apply medic	

17.1 17. Perform necropsy using a methodical approach and take appropriate samples for diagnostic purposes		
17.1 Perform a protocolized field necropsy, including appropriate sampling		
17.1 How important is this competency?		
▼ Not at all important (0) Extremely important (4)		
17.1 How often do you perform tasks that require this competency?		
▼ Never (0) Always (4)		
17.1 Comments:		
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Start of Block: 17. Perform necropsy using a methodical approach and take appropriate samples for diagnostic purposes

17.2 17. Perform necropsy using a methodical approach and take appropriate samples for diagnostic purposes
17.2 Identify gross pathologies
17.2 How important is this competency?
▼ Not at all important (0) Extremely important (4)
17.2 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
17.2 Comments:

17.3
17. Perform necropsy using a methodical approach and take appropriate samples for diagnostic purposes
17.3 Understand the biohazard/public health implications of necropsies

17.3 How important is this competency?
▼ Not at all important (0) Extremely important (4)
17.3 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
17.3 Comments:
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- <u></u> -
End of Block: 17. Perform necropsy using a methodical approach and take appropriate samples for diagnostic purposes

Start of Block: 18. Understand and contribute to animal health economics		
18.1 18. Understand and contribute to animal health economics		
18.1 Understand the impact of herd health, diseases and animal welfare on farm finances, productivity and public health (inc. zoonoses)		
18.1 How important is this competency?		
▼ Not at all important (0) Extremely important (4)		
18.1 How often do you perform tasks that require this competency?		
▼ Never (0) Always (4)		
18.1 Comments:		
18.2 18. Understand and contribute to animal health economics		
18.2 Understand financial implications of intervention measures and prevention		

18.2 How important is this competency?
▼ Not at all important (0) Extremely important (4)
18.2 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
18.2 Comments:
18.3
18. Understand and contribute to animal health economics
18.3 Perform a cost-benefit analysis, economic analysis of production results
18.3 How important is this competency?
▼ Not at all important (0) Extremely important (4)

▼ N	ever (0) Always (4)	
8.3	Comments:	
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19.1 19. Diagnose, advise on and control zoonotic disease related to animal contact or consumption of products		
19.1 Knowledge of public health dangers related to cattle and their products: manimal contact	eat, milk,	
19.1 How important is this competency?		
▼ Not at all important (0) Extremely important (4)		
19.1 How often do you perform tasks that require this competency?		
▼ Never (0) Always (4)		
19.1 Comments:		
19.2		

19. Diagnose, advise on and control zoonotic disease related to animal contact or

Start of Block: 19. Diagnose, advise on and control zoonotic disease related to animal

contact or consumption of products

consumption of products

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19.2 Relevant legislation for zoonotic diseases		
19.2 How important is this competency?		
▼ Not at all important (0) Extremely important (4)		
19.2 How often do you perform tasks that require this competency?		
▼ Never (0) Always (4)		
19.2 Comments:		
		
		
		
19.3		
19. Diagnose, advise on and control zoonotic disease related to animal contact or consumption of products		
19.3 Basic knowledge of the clinical signs of zoonotic diseases (from cattle) in humans		

19.3 How important is this competency?
▼ Not at all important (0) Extremely important (4)
19.3 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
19.3 Comments:
End of Block: 10 Diagnose, advise on and control zoonetic disease related to enimal
End of Block: 19. Diagnose, advise on and control zoonotic disease related to animal contact or consumption of products

20.1 20. Be aware of relevant current EU legislation and be able to translate into practica situations	ıl
20.1 Cattle health and welfare	
20.1 How important is this competency?	
▼ Not at all important (0) Extremely important (4)	
20.1 How often do you perform tasks that require this competency?	
▼ Never (0) Always (4)	
20.1 Comments:	
20.2	
20. Be aware of relevant current EU legislation and be able to translate into practica situations	lI .
20.2 Rearing	

20.2 How important is this competency?
▼ Not at all important (0) Extremely important (4)
20.2 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
20.2 Comments:
20.3 20. Be aware of relevant current EU legislation and be able to translate into practical situations
20.3 Slaughter and euthanasia
20.3 How important is this competency?
▼ Not at all important (0) Extremely important (4)

20.3 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
20.3 Comments:
20.4
20. Be aware of relevant current EU legislation and be able to translate into practical
20. Be aware of relevant current EU legislation and be able to translate into practical situations
20. Be aware of relevant current EU legislation and be able to translate into practical
20. Be aware of relevant current EU legislation and be able to translate into practical situations
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20. Be aware of relevant current EU legislation and be able to translate into practical situations 20.4 Drug use 20.4 How important is this competency?
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20. Be aware of relevant current EU legislation and be able to translate into practical situations 20.4 Drug use 20.4 How important is this competency?
20. Be aware of relevant current EU legislation and be able to translate into practical situations 20.4 Drug use 20.4 How important is this competency?
20. Be aware of relevant current EU legislation and be able to translate into practical situations 20.4 Drug use 20.4 How important is this competency?
20. Be aware of relevant current EU legislation and be able to translate into practical situations 20.4 Drug use 20.4 How important is this competency? ▼ Not at all important (0) Extremely important (4)

20.4	4 Comments:	
20.5	5	
20 . l	Be aware of relevant current EU legislation and be able to translate into practations	ctical
20.5	5 Biosecurity and regulated animal diseases	
20.5	5 How important is this competency?	
▼ N	Not at all important (0) Extremely important (4)	
20.5	5 How often do you perform tasks that require this competency?	
▼ N	Never (0) Always (4)	
20.5	5 Comments:	

End of Block: 20. Be aware of relevant current EU legislation

21.1 21. Interpret and apply scientific literature
21.1 Evaluate a scientific paper on quality of evidence and translate its content to field applications
21.1 How important is this competency?
▼ Not at all important (0) Extremely important (4)
21.1 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
21.1 Comments:
21.2 21. Interpret and apply scientific literature
21.2 Effectively communicate results of paper

21.2 How important is this competency?
▼ Not at all important (0) Extremely important (4)
21.2 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
21.2 Comments:
21.3
21. Interpret and apply scientific literature
21.3 Demonstrate knowledge of recent literature
21.3 How important is this competency?
▼ Not at all important (0) Extremely important (4)

▼ N	ever (0) Always (4)	
21.3	Comments:	
-		
-		
-		

22.1 22. Effectively communicate with a variety of stakeholders and influence human behaviour	1
22.1 Define appropriate communication strategies for different circumstances	
22.1 How important is this competency?	
▼ Not at all important (0) Extremely important (4)	
22.1 How often do you perform tasks that require this competency?	
▼ Never (0) Always (4)	
22.1 Comments:	

22. Effectively communicate with a variety of stakeholders and influence human

behaviour

Start of Block: 22. Effectively communicate with a variety of stakeholders and influence human behaviour

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behaviour change
22.2 How important is this competency?
▼ Not at all important (0) Extremely important (4)
22.2 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
22.2 Comments:
22.3 22. Effectively communicate with a variety of stakeholders and influence human behaviour
22.3 Effectively communicate with veterinary specialists, first line practitioners, farmers, farm advisers, consumers and stakeholders from the cattle industry

22.3 How important is this competency?
▼ Not at all important (0) Extremely important (4)
22.3 How often do you perform tasks that require this competency?
▼ Never (0) Always (4)
22.3 Comments:

End of Block: 22. Effectively communicate with a variety of stakeholders and influence
human behaviour

Start of Block: 23. Basic understanding and application of breeding and genetics

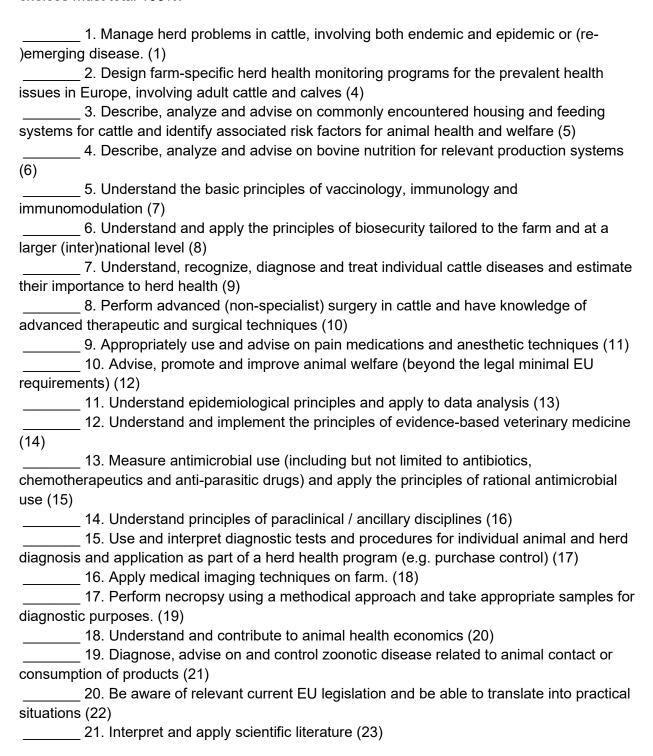
23.1 23. Basic understanding and application of breeding and genetics	
23.1 Genetic improvement of stock Heritability of characteristics Selection for characteristics (EBVs) Economic assessment of genetic gain Influence of breed improvement on health and its constraints	
23.1 How important is this competency?	
▼ Not at all important (0) Extremely important (4)	
23.1 How often do you perform tasks that require this competency?	
▼ Never (0) Always (4)	
23.1 Comments:	

npetency?

Start of Block: Percentage allocation

Allocation

Please use the sliders below to indicate what percentage of the exam should be allocated to each content area. There are 23 categories. You cannot exceed 10% per category. Your choices must total 100%.



22. Effectively communicate with a variety of stakeholders and influence human behaviour (24) 23. Basic understanding and application of breeding and genetics (25)
End of Block: Percentage allocation
Start of Block: Survey adequacy
How well did this survey cover the important knowledge areas required to be an ECBHM diplomate?
Completely (1)
O Adequately (4)
O Inadequately (5)
Please list any additional knowledge areas that were not covered by this survey.
Do you have any additional comments, questions, or concerns you would like to share?

End of Block: Survey adequacy

Start of Block: Name and email address
If you would like to obtain credit from the College for completing this survey, please enter your name and email address below. Your responses will remain anonymous and will not be linked to your name in any way.
Name:
Email address:
End of Block: Name and email address