Certificate in Pig Medicine

Please view the general documents to obtain copies of:

- Timetable
- **B.1:** Guidance Notes for candidates on general requirements.
- **G.** Role of Advisers to Certificate Candidates.

The following papers are enclosed:

- **B.2:** Specific Guidance Notes for the Certificate. These notes explain what is required in terms of experience and in terms of the content of the Certificate examinations.
- **C:** Syllabus and Commentary for the Certificate.
- **D:** Reading list.
- **E:** Application Forms E.1A, E.2.
  - **E.1A** - for specific details of practice
  - **E.2** - for final approval of experience and for permission to submit an entry to the examination
- **F:** List of Advisers – also refer to Lists of Certificate holders in Register of Members.

*A copy of the most recent Examination Question Paper is enclosed for your information.*

April 2011
THE CERTIFICATE IN PIG MEDICINE

SPECIFIC GUIDANCE NOTES FOR CANDIDATES
[These notes must be read in conjunction with the B1 General Guidance Notes to Candidates]

MEMBERSHIP OF THE ROYAL COLLEGE OF VETERINARY SURGEONS

1. It is a requirement of the Pig Medicine Board that ALL Candidates entering for the Certificate are Members of the Royal College of Veterinary Surgeons (MsRCVS).

GENERAL ADVICE FROM THE BOARD

2. The Board which oversees the Certificate and Diploma Examinations in Pig Medicine, would like to explain briefly what is involved in studying for the Certificate as follows:

3. If you are working on a day-to-day basis in veterinary activities such as the treatment and control of pig diseases and the economics of pig production, and wish to have your knowledge and practical expertise tested and recognised at a level at least two years beyond that of a newly qualified graduate, you can apply to the RCVS to enrol as a prospective examination candidate.

4. You must be prepared to gain the necessary theoretical knowledge called for in the syllabus by utilising the reading list, by private studies and by attending sufficient short courses, meetings, etc., to acquire 30 "credits" over a period of two years while you are gaining practical experience in your daily work in pig medicine.

5. Candidates are strongly advised to ensure that they have adequately reviewed the guidance provided and fully understand the syllabus before entering for the examination. If candidates do not have a thorough knowledge of Welfare topics/and or Legislation relevant to pigs, they may fail the examination overall.

6. The Certificate Examination is held annually, and you must apply to the RCVS, for approval of your experience and permission to submit an examination entry no later than 1 November preceding the year in which you wish to take the examination.

7. Normally, graduates working in the field of pig medicine should enrol at the beginning of the minimum experience period required prior to the Certificate examination. However, those veterinary surgeons who are already sufficiently experienced may combine an enrolment application with an application for approval of experience, if they are confident that they will have amassed sufficient "credits" by the time of the examination. All prospective candidates are, however, urged to allow adequate time to study the syllabus and to prepare the three case reports. The latter are an important part of the examination and before embarking on the preparation of the reports candidates should discuss their content and format with a Diplomate in Pig Medicine.
SPECIFIC EXPERIENCE

Approved Centre Route

8. The Pig Medicine Board has decided that Candidates following the approved centre route will not be permitted to enter for the examination until they have been Member of the College or held an approved veterinary qualification for at least two years and have gained experience in the subject over at least two year's full-time.

9. Applications for approval of a Centre must be made directly by the Centre to the RCVS and not by the candidate. An application Form can be obtained from the RCVS.

Approved Practice Route

10. Candidates following the Approved Practice route will not be permitted to enter for the examination until they have been Members of the College or held an approved veterinary qualification for at least three years and have gained experience in the subject over at least two years’ full time or four years’ part time.

11. The Board has discretion to increase the requirements for experience for any candidate above the minimum specified if it is considered to benefit the candidate.

12. Experience offered must have been obtained within the previous five years, or after enrolment, and no period of experience can be offered to meet the requirements for more than one RCVS Certificate/Diploma. Applicants should, preferably, be studying for no more than one qualification at a time. Equally it is preferable for a candidate to take only one examination in any one year.

13. Candidates must show that during the period of experience being offered they have been or are consistently involved (e.g. on a day-to-day basis in a practice dealing with pigs) in activities such as the treatment and control of pig diseases, the economics of pig production. Details should be given, on the application forms, of the pig work in the practice (or other veterinary centre), i.e. give numbers of breed/finishing farms, and total sows/total pigs; and the numbers of herds (and size in terms of sows). Details should be given of personal involvement in the pig work described - number of routine advisory visits, health control visits, and so on, with information on the services you provide. An estimate should be made of the average number of hours per week which you spend on pig work - on farms and including desk work. Details should be given, also, of any involvement with and time spent at a pig orientated laboratory, a pig AI station, time with an OVS, time with SVS (DEFRA), adverse reaction unit and any other ancillary parts of the pig industry.

FINAL APPROVAL OF EXPERIENCE/ ADDITIONAL SUBMITTED WORK

14. At this stage, the Pig Medicine Board requires enrolled candidates to complete a form indicating credits gained over a 2-year period. (see annex 1)
THE EXAMINATION

15. The examination consists of three Sections:
   i. 3 case reports
   ii. TWO written papers, and
   iii. an oral and practical examination.

SUBMITTED WORK FOR EXAMINATION

Number and Format

16. The aim of the Board in making the submission of case reports part of the examination is to gain information on each candidate's type and depth of practical experience.

17. Three case reports must be submitted. No more than one of the reports should deal with an individual animal - and this must be well documented. At least one of the three reports should deal with a herd problem investigated by the candidate, and this should include the actual/facsimile report(s) presented to the farmer - with names omitted. A series of reports on routine visits to a farm may be submitted as one case report. Published papers may not be submitted as such, although work which has been the subject of a publication or publications could form the basis for one or more case reports.

18. Attention is drawn to the importance of the case reports as the first hurdle to overcome in the examination for the Certificate in Pig Medicine. The Pig Medicine Board and the Certificate Examiners are becoming increasingly concerned at the number of candidates who are known to be competent, knowledgeable pig veterinarians and who should be fully capable of passing the Certificate Examination but who are prevented from proceeding to the written and clinical, oral and practical sections of the examination because they submit inadequate or badly drafted case reports. This not only sets them back a year before they can re-submit but also deters other would-be candidates who come to view the examination as much more difficult than it actually is.

19. The case reports serve a number of purposes. The most obvious one is that they provide examples of the type and standard of pig medicine that the candidate is involved in. This is particularly important if the candidate is an academic, is laboratory based, in government service, or in a commercial company. More important, they demonstrate that the candidate is able to interpret data and record observations in a logical and lucid way. Veterinarians in pig practice frequently have to write reports for clients and it is important that they do this in a professional and technically sound manner. It is also in the profession's interest, and to be expected of enthusiastic veterinarians "at the cutting edge" that when they encounter a novel case, or make an original observation, or develop a new technique that they publish it in a relevant veterinary journal or in the farming press. The cases reported should therefore not only be reasonably substantial and interesting but should also be drafted to a standard that would be acceptable to say, the Editor of a journal such as the Veterinary Record.
20. The Members of the Board realise that many pig veterinarians, particularly those in pig practice, have no training in technical writing. For that reason they urge you to seek help from an adviser who is experienced in such matters before you prepare the final drafts for submission. Candidates are asked to submit an electronic version of their submitted work together with their hard copy. This will be retained at RCVS unless requested by the examiners for purposes such as checking the word count. The electronic version should be Microsoft Office 2000 or XP compatible and should be submitted on either CD or floppy disc/s. Please ensure that the disks are easily identifiable by placing them in an envelope with your name, and ‘Electronic version of submitted work for Certificate in Pig Medicine’ marked clearly on the front.

Word Count

21. The length of each case report should be approximately 3000 words (excluding references and appendices) and should not exceed 5000 words. Candidates should indicate the Word Count on the front cover of each Case Report. Candidates that exceed the maximum word count will have their word returned to them unmarked.

Marks Scheme

22. Case Books will be graded
   Good Pass/Pass/Fail – 50% being a Pass.

   Work that is graded as a ‘good pass’ may be made available as an example for prospective candidates.

WRITTEN EXAMINATION

Format

23. Candidates are warned that answers should be given specifically and that illegible handwriting may result in examiners being unable to award marks for information which candidates intended to convey.

24. The Written examination will consist of two 2-hour papers, each divided into two sections, viz.
   Section A – three essay-type questions of which two must be answered in 1 hour,
   Section B - 10 short-answer questions, all of which are compulsory and should be answered in 1 hour.

25. Paper I will be set with the emphasis primarily on diseases of pigs, and Paper II will cover the remainder of the syllabus. Questions will be directed mainly at assessing a candidate's knowledge in the disease and management areas rather than emphasising epidemiological aspects. Attention is drawn to the need for clarity of presentation in written answers (and in other written work submitted) since this is an important aspect in communication with clients. When marking papers, the examiners will also take into consideration legibility, spelling and whether the question has been answered in the form requested.
Marks Scheme

26. Written examination:
   Paper I - 50 marks
   Paper II - 50 marks
   **TOTAL: 100**

Clinical, Oral and Practical Examination

27. Oral and practical examination - This will not normally last for more than two hours in all for each candidate.

28. There may be a farm visit during the examination which will not entail practical application but will be only for information and will form the basis for any discussion on procedures and tasks in the oral examination.

29. The candidate's case reports may be discussed.

30. Candidates MUST pass this section of the examination in order to be successful in the examination overall. The Clinical/Oral/Practical examination will be marked out of 100.

Format

Practical

30. There will be three half-hour sessions for the candidate, with each of the examiners individually. One session will normally be in the post mortem room, examining pig post mortem material. The second and third sessions with each of the other two examiners will involve discussion of on-farm records, clinical specimens and photographs of clinical conditions in pigs.

Oral

31. The candidate will spend half an hour with all three Examiners.

Syllabus, Commentary and Reading List

32. A detailed syllabus and commentary is provided.

33. A reading list is provided. However, in view of the increased access to the internet, and the ready availability of on-line literature searches, the Board has agreed that the existing reading list should be frozen in 2002 and that in 2-3 years’ time these lists will be withdrawn altogether. In future, candidates will be expected to do their own research and are encouraged to seek advice on suitable reading matter from their advisers and through the RCVS Library and Information Service.
ADVISERS

34. All candidates must have an adviser (one who has been an Examiner for the Certificate in Pig Medicine would be particularly helpful), and must arrange to have at least one talk with them during the course of their studies.

35. Candidates are advised to look in the back of the RCVS Register of Members for the names of Certificate and Diploma Holders of Pig Medicine and seek their agreement to act in this capacity, prior to enrolment. Candidates are strongly urged to contact one of these to discuss any points arising in studies for the examination, including the preparation of Case Books. It is stressed that candidates who seek the guidance of an adviser benefit significantly in their preparation for and performance in the examination. It is for candidates to approach their adviser, to keep in touch with them during the period of enrolment and travel to meet them should this be necessary.

CREDIT SYSTEM/ATTENDANCE AT SHORT COURSES

36. **IN ADDITION to the compulsory requirement for a Candidate to complete and copy their CPD Record Cards for submission with their Form E.2., Candidates entering for the Certificate in Pig Medicine are ALSO required to show that, by the time of entry to the examination, they have obtained 15 credits for each of the two years of approved experience; see the Table at the end of this document B2. Relevant short courses, and other forms of learning which will carry credits, will normally have been designated beforehand by the Board, but the byelaws permit retrospective approval. You should therefore include any local meetings or courses, or overseas meetings or conferences, which you have attended and consider relevant. Formal "certification" of attendance is not required.**

37. Short periods spent with specified veterinary surgeons will normally rank for credits - but approval must be gained beforehand from the Board.

38. Candidates will be asked, at the time of enrolment, to say how they propose to gain the necessary credits and, at the time of seeking final approval of experience, to give information on the number of credits so far gained.

39. Although there is provision in the byelaws to make attendance at short courses compulsory for those wishing to take a Certificate examination, the Board is not, for the time being at least, introducing such a requirement.

ANY ADDITIONAL INFORMATION RELATING TO THIS QUALIFICATION

40. The standard of the examination as a whole is that expected after two to three years of veterinary experience, during which time the graduate would be consistently involved in pig medicine.

MEMBERSHIP OF VETERINARY ASSOCIATIONS/SOCIETIES

41. Enrolled candidates are encouraged to become a Member of the Pig Veterinary Society and attend meetings.
ABBREVIATION FOR QUALIFICATION

42. Successful candidates are permitted to use the abbreviation "Cert PM" after their names in the RCVS Register of Members, and on practice plate, stationery, etc. Certificate holders who obtain the Diploma in the same subject cease to use the Certificate abbreviation.

Attachments: Credit Table
PIG MEDICINE BOARD - CREDIT SYSTEM FOR CERTIFICATE

30 credits are required over the two-year period leading to entry to the examination i.e. **15 per year**. Credits can be obtained by attendance at meetings and conferences or by spending time in a practice specialising in Pig Medicine.

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<tr>
<th>TYPE OF COURSE/MEETING/DAY</th>
<th>No. OF CREDITS (per session)</th>
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<th>pm</th>
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<th>TOTAL</th>
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<td>Pig Veterinary Society Meetings (2 Per session - <strong>Max. = 6</strong>)</td>
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<td>International Pig Veterinary Society Congress (1 per ½ day session) (<strong>Max. = 6</strong>)</td>
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<td>Day with Diplomate (1 per session - <strong>Max. = 3</strong>)</td>
<td>10-12 am-pm</td>
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<td>Day with Certificate Holder (exclude own practice) (1 per a.m. session, 1 per p.m. session - <strong>Max. = 2</strong>)</td>
<td>2-4 pm</td>
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<td>Refresher Courses eg. Liverpool - (2 per session - <strong>Max. = 4</strong>)</td>
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<td>1-2 Week Course ie. (MSc Course) (1 per day - <strong>Max. = 5 for 1 week</strong>) (2 weeks = <strong>Max 10</strong>)</td>
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<td>Short Courses (1 per session - <strong>Max. = 3</strong>) eg. DEFRA = <strong>Max. 2</strong>, Elanco = <strong>Max. 2</strong>, Solvay Launch = <strong>Max. 2</strong>, PIC (1 per session) = <strong>Max. 2</strong></td>
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<tr>
<td>Home Study (credits may not be obtained in this way) <strong>NIL</strong></td>
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<td><strong>NIL</strong></td>
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**NB:** Discretionary points can be awarded for other Conferences e.g. ASP or Irish Pig Health Society meetings

June 1998
BOARD FOR PIG MEDICINE

CERTIFICATE IN PIG MEDICINE

COMMENTARY
The Syllabus is designed to reflect the level of knowledge of Pig Medicine in a candidate with the required level of experience. The depth of knowledge needed varies between different aspects of pig production may vary between candidates depending on their experience but practical knowledge of clinical diagnosis and control of commonly occurring diseases and clinical abnormalities of the pig is expected to be thorough. Detailed laboratory knowledge e.g. details of laboratory diagnosis, is not a requirement. A full working knowledge and understanding of the welfare of the pig is expected in relation to:

- Ethology, Normal and abnormal behaviour
- Intensive/extensive, indoor and outdoor pig-keeping systems
- Legislation and Codes of Practice
- The role of the stockperson
- Transportation and slaughter
- Disease
- Recognition and care of the "compromised" animal
- Ethics and biotechnology
- Interrelationship between stockmanship, disease and environment and their effect on welfare

SYLLABUS
1. The candidate will be required to have a sound working knowledge of the following:

A. Basic Anatomy and Physiology of the Pig.

B. Monitoring, sampling and certification re health and freedom from specific diseases.

C. Legislation in the UK and the EU re pig health and welfare and veterinary practice, including use, prescription and dispensing of medicines.

D. Those diseases and abnormal conditions of pigs which are commonly encountered in the British Isles and mainland Europe including:
   - Injuries and 'vices' including abnormal behaviour patterns and aggressive behaviour.
   - Zoonoses and their implications.

E. Diagnostic methods, including:
   - Clinical examination
   - Case recording
   - Post-mortem examination and abattoir monitoring
     (Gross pathology only)
   - Collection and preservation of samples for laboratory examination
   - Routine diagnostic laboratory techniques

The candidate would not be expected to have practical detailed knowledge of specific laboratory tests such as serological tests.
F. Therapeutics and prophylactic medication. Immunity and vaccination. (Individual pig care).

G. Routine surgical procedures and anaesthesia including routine stockman's tasks and euthanasia.

H. Disease control programmes, principle and method of application on individual herd basis; hygiene, including ventilation, cleansing and disinfection.

I. Reproduction
   - Anatomy, physiology, surgery, obstetrics and reproduction
   - Normal and abnormal reproductive behaviour
   - Husbandry aspects of reproduction - basic principles of boar usage and sow management for efficient reproduction;
   - Methods of pregnancy diagnosis and examination of the reproductive tract embryos and foetuses;
   - Obstetrical problems;
   - Common causes of reduced herd reproductive performance;
   - Recording and analysis of reproduction data, including production targets;
   - An understanding of the principles and applications of A.I., and conceptus transfer.

J. Nutrition
   - Basic nutritional requirements of the pig at different ages;
   - Common dietary constituents, used in compounding rations;
   - Feed supplements and additives - nutritional, medicinal and growth promotional
   - Nutritional deficiencies
   - Laws relevant to feed manufacture
   - Waste Feeds

   The candidate would not be expected to formulate diets.

K. The variety of production systems in use for each type of pig, i.e.
   - Service areas
   - Dry sow housing
   - Dry sow systems
   - Farrowing systems
   - Weaning systems
   - Grower accommodation
   - Feeding systems
   - Outdoor management systems;

   and an appreciation of the role of the stockman in operating such systems and the effects of stocking rates, insulation, ventilation design etc. on pig production.

L. Interaction between the environment, welfare and production with particular respect to:
   - medicine control
   - water systems
   - feed systems
   - ventilation systems
   - flooring/structure design

M. Care of the compromised pig
   - hospital pen design
   - use of and maintenance of a humane killer. Disposal techniques for fallen carcasses
- fitness to travel/fitness for human consumption/the role of the OVS and meat hygiene service.

2. The candidate should also have an understanding of -

N. Structure and economics of the industry
   - Pig population, economics, marketing and other factors influencing same; carcass grading; quality assurance.
   - Genetic improvement, principles and systems, breeding pyramids, health consideration including biotechnological techniques.
   - Feed industry and other supporting industries - source, variation in supplies and cost of feeds.
   - Pig marketing, slaughtering methods and meat processing

O. Economics of pig production - including production targets.

P. Recording systems

Q. Structure of European pig industry including legislation.

R. Disease control on an international, national and multi-herd basis.

Initiated 1983
Reviewed May 1995
Reviewed Nov 1995
Revised August 1999
CERTIFICATE IN PIG MEDICINE

Candidates should note that the reading list for Pig Medicine was frozen in 2002 and will eventually be withdrawn. Candidates are expected to research the literature for themselves and are recommended to make use of the RCVS Library and Information Service for this purpose (http://www.rcvslibrary.org.uk, e-mail - library@rcvs.org.uk or telephone 020 7222 2021). Candidates should also seek advice on suitable reading matter from their advisers.

Reading/reference list

The following list is for guidance and candidates are encouraged to read widely.

Journals

Advances in Veterinary Science and Comparative Medicine - pig reviews
Animal Science published by British Society of Animal Science
International Pig Veterinary Society Congress Proceedings
Pig Industry (British Pig Association)
Pig International
Pig Journal (PVS)
Pig Letter International and "Conversation Series" audiotapes (Pig World Inc) obtainable through Pig Veterinary Society
Pig News and Information, Commonwealth Agricultural Bureau, Quarterly reports, reviews, selected abstracts
Pig Progress (Elsevier)
Pigworld (sam@pigworld.org)
Proceedings, American Association Swine Practitioners (AASP)
Swine Health and Production, Journal of the AASP
Veterinary Annual - pig reviews
Veterinary Record and In Practice - pig papers

Books


Brent G (1986) "Housing the Pig". Ipswich Farming Press.

Carr J (1998) ‘Garth Pig Stockmanship Standards’


PIC Pig Management Year Book: Easy Care Pig Management Year Book and Pig Tales Year Book (combined) Available from 01262 488181 £12.50.


Legislation relating to Pigs


The Welfare of Animals (Transport) Order 1997 plus Guidance Notes issued by DEFRA.

The Agriculture (Miscellaneous Provisions) Act 1968... (under which the Welfare Regs are made, and which legislation allows welfare codes to be made)

The Welfare of Livestock Regulations 1994 plus Guidance Notes issued by DEFRA. Replaced by The Welfare of Farmed Animals (England) Regulations 2000 (or Scotland) don’t know about Wales..you may wish to quote the English legislation?


The Diseases of Animals (Waste Food) Order 1973 and amendments. This Order is now replaced by The Animal By-Products Order 1999, which was amended in 2001 to ban swill feeding. Amendment is The Animal By Products Amendment (Scotland) Order 2001 (or obviously England again)

The Protection of Animals Acts 1911-1988 ...allows a ban on keeping animals What about other bits of legislation like
The Protection of Animals(Anaesthetics) Acts 1954, 1964 as Amended
The Veterinary Surgeons Act 1996
The Abandonment of Animals Act 1960

Other Publications

ADAS Publications, e.g. Pig Health and Production Recording; Pig Environment
DEFRA Publications, Lion House, Alnwick, Northumberland NE66 2PF

Meat & Livestock Commission Pig Publications e.g. Pig Yearbook, Pig Plan Quarterly data sheets - obtainable from MLC PO Box 40, Winterhill House, Snowdon Drive, Milton Keynes MK6 IAX.

"Easicare" and "Pig Topics" publications. Pig Improvement Company.

The Codes of Recommendations for the Welfare of Livestock - Pigs, DEFRA Publications.

FABpigs Control Manual from 1998 with updates
And/or

Useful Contacts (Website Information)

National Pork Producers Council (NPPC) USA. http://www.NPP.org

USDA/FDA Foodborne Illness Education Information Center.
http://www.nal.usda.gov/fnic/foodborne/foodborn.htm

American Association of Swine Practitioners (AASP). http://www.aasp.org

Garth Veterinary Practice. http://www.garth.demon.co.uk

Pig and Poultry Production Institute, University of Adelaide, Australia.

Society of Veterinary Epidemiology and Preventive Medicine.
http://www.vie.gla.ac.uk/svepm

Medline, this data bank contains over one million references and abstracts relating to veterinary and medical publications. http://www.ncbi.nlm.nih.gov/pubmed

The Pig Journal, UK. http://www.pigjournal.co.uk


Extoxnet, Cornell University, USA. This data bank contains information on pesticides.
http://ace.ace.orst.edu/info/extonet/pips/dicofol.htm

Web access to Veterinary information in Centre for Agriculture and Bioscience International, Oxon, UK. http://vet.cabweb.org

Oldcastle Laboratories Ltd. http://ireland.iol.ie/kavnalab

RCVS Library and Information Service - http://www.rcvs.org.uk

December 1988    Revised Oct 1996
Revised Nov. 1992    Revised June 1998
Revised June 1993    Revised Nov 1998
Revised May 1995    Revised June 1999
Revised Jan 2001
Frozen Nov 2002
Details of the veterinary practice in which experience is being gained over at least two calendar years to meet the requirements of the byelaws for the Certificate in Pig Medicine:

(If more than one practice please photocopy this form and complete in respect of each such practice)

1. Name of practice and address
   __________________________________________________________
   __________________________________________________________
   __________________________________________________________

2. Date of joining the practice (and date of leaving if you are no longer employed at this address)
   __________________________________________________________

3. Numbers of veterinary surgeons usually working in the practice
   __________________________________________________________

4. Approx. percentage of the practice-time devoted to pig medicine
   ____________________%

5. Approx. percentage of your own time devoted to pig medicine
   ____________________%

6. Description of your experience in relation to pig medicine:
7. EXPERIENCE

Please state where and how you have been/are obtaining the necessary experience in pig medicine over at least two calendar years. You are asked to give such details as will enable the Board to estimate the extent of such experience, i.e. type and size of pig population to be serviced, average hours per months to be spent on each activity listed.

Please describe how your professional life is/will be apportioned between the different aspects of pig medicine which you list, and show separately your other professional activities.

Please state here the period(s) of experience to be offered for the Certificate Examination (from/to):

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8. CREDITS

In order that the Board may advise you on short courses, meetings, etc., which will count for credits, please indicate below those which you are planning to attend in order to gain 15 credits (the equivalent of five 3-session days) per year of approved experience, i.e. 30 credits in all.

If you wish to spend a day or days with a veterinarian for the purpose of gaining experience in particular aspects of pig medicine, and wish to count such periods for credits, you should obtain approval from the Board in advance - and, if you wish, you can give details below:

Please Note: The Credit requirement is IN ADDITION to the requirement for CPD Record Cards to be completed at application for FINAL approval of experience.

9. If you consider that you can meet the requirements of the byelaws insofar as admission to the examination is concerned, and you wish to seek permission to submit an entry to the next examination, you may also complete and submit, together with this application for enrolment, the form of application E.2 for final approval of experience.
10. Brief description of your other professional activities:

11. Any special equipment or facilities, in the practice, in relation to pig medicine:

Signature ___________________ Date ___________________

PLEASE RETURN ORIGINAL PLUS FOUR COPIES OF EACH FORM AND ANY SUPPORTING PAPERS
Details of the veterinary centre (not being a practice) in which experience is being gained over at least two calendar years to meet the requirements of the byelaws for the Certificate in Pig Medicine:

(If more than one centre please photocopy this form and complete in respect of each such centre)

1. Name of veterinary centre and address

2. Description of your post (i.e. title) and date of taking up employment at the centre (and date of leaving if you are no longer employed at this address):

3. Approx. percentage of your own time devoted to veterinary work related to pig medicine

\[ \text{---------\%} \]

4. Description of your experience in pig medicine:
5. Brief description of your other professional activities:

6. Any special equipment or facilities in the centre, in relation to pig medicine:

Signature ___________________________ Date ___________________________

Please enclose a stamped addressed envelope for acknowledgement.
Specialisation and Further Education

CERTIFICATE IN PIG MEDICINE
Application for FINAL approval of experience and for permission to submit an entry to the next
examination
to be completed and returned to the RCVS, Belgravia House, 62-64 Horseferry Road, London SW1P 2AF by 1 November. NO LATE APPLICATIONS WILL BE ACCEPTED

1. NAME in full (block letters)

2. DEGREES/DIPLOMAS/CERTIFICATES _________________________________ (in abbrev. form)

3. ADDRESS for all correspondence (block letters)

4. TELEPHONE No. (for daytime contact)
   FAX No.(for daytime contact)
   E-mail Address:

5. DATE OF ENROLMENT ____________________________ (MONTH/YEAR)
   If application for enrolment is being submitted concurrently with this application please state.
6. **PERIODS OF EXPERIENCE BEING OFFERED** to meet the requirements of the byelaws

<table>
<thead>
<tr>
<th>Establishment (name and address)</th>
<th>Period of employment (from/to)</th>
<th>Certified by employer</th>
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7. If there has been any change in the work-load of the establishment, or in your personal work-load, since you applied for enrolment, please give details below:

(Such details should include the nature of your own role/appointment, and give average hours per month spent on work related to pig medicine, and the types and sizes of pig populations serviced by you from the practice/centre.)
8. **CREDITS GAINED**

(The Board stipulates that a total of 15 credits per year of approved experience, i.e. the equivalent of two calendar years making 30 credits in all, shall have been obtained by the time of submitting an entry to the examination. If, therefore, you have not yet obtained sufficient credits there is still time to meet this requirement.)

<table>
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<tr>
<th>Description of the course or other form of learning in which you have participated</th>
<th>Date(s)</th>
<th>Hours of relevant formal lectures</th>
<th>Hours of relevant Pract/clinical involvement</th>
<th>No. of credits claimed (Max. 3 per day on a time basis)</th>
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If you have not yet gained the full 30 credits, please indicate below how you propose to acquire the balance:

**IN ADDITION:** Please send photocopies of your RCVS CPD Record Cards covering the experience being offered.
9. **PUBLICATIONS/ARTICLES/PAPERS/LECTURES**
   Please give details below (including any involvement in the instruction of others) or append a paper:

10. **OTHER POSTGRADUATE STUDIES** - please state if, during the period of experience being offered, you have been or are studying for any other postgraduate qualification - and if yes, give brief details:

11. **I HEREBY APPLY FOR APPROVAL OF EXPERIENCE AND FOR PERMISSION TO SUBMIT AN ENTRY TO THE NEXT CERTIFICATE EXAMINATION IN PIG MEDICINE.**
    I certify that the period of experience being offered has not been/is not being offered to meet the requirement of the byelaws for any other RCVS Certificate or Diploma.

12. **CONFIRMATION OF INTENT TO SIT THE EXAMINATION**
    If approval of experience is granted, I do/do not (delete as appropriate) intend to submit an entry to the next examination.

    Signature ___________________________ Date _______________________

    Please enclose a stamped addressed envelope for acknowledgement.

**THE FOLLOWING SECTION SHOULD BE COMPLETED BY YOUR ADVISER.**

I confirm that I am acting as this candidate's Adviser

Name: ___________________________________________________________(block capitals)

Signature: ___________________________ Date _______________________
CERTIFICATE IN PIG MEDICINE ADVISER LIST

Candidates should consult the RCVS Register of Members for a suitably willing and qualified individual (someone holding a Certificate or Diploma or equivalent) who is familiar with the RCVS Certificate or Diploma examination system and clinically active.
THE ROYAL COLLEGE OF VETERINARY SURGEONS

CERTIFICATE IN PIG MEDICINE

WEDNESDAY 30 JUNE 2010

PAPER I
(2 hours)

This paper is in two Sections (A and B) and instructions relating to the number of questions to be answered are given at the head of each Section.

SECTION A

Candidates are required to answer TWO of the following THREE questions.

Allow 30 minutes per question.

Illegible handwriting or failure to answer the question in the form requested may result in examiners being unable to award marks for information which candidates intended to convey.

_________________________________________________________________________________________

1. Discuss the aetiology of so-called porcine respiratory disease complex (PRDC). Outline the advantages and disadvantages of the different strategies that might be considered for the control or elimination of PRDC from a 350-sow indoor farrow-to-finish unit.

2. A producer with 600 sows indoors and batch-farrowing every three weeks has complained of very variable weights of piglets at weaning over several recent batches. Describe how you would investigate this problem, suggesting possible causes. Briefly indicate how each cause might be corrected, pointing out any differences that might apply in an outdoor unit.

3. A client with an 800-sow outdoor unit has complained that his farrowing index has fallen from 2.43 to 2.12 litters per sow per year. List the possible reasons for this apparent drop in productivity and describe how you would attempt to identify the possible causes of the problem.

P.T.O. for Section B
Candidates are required to answer ALL TEN of the following questions.

Allow 6 minutes per question.

Illegible handwriting or failure to answer the question in the form requested may result in examiners being unable to award marks for information which candidates intended to convey.

Write short notes on:

4. Actinobacillus suis.
5. The diagnosis of disease caused by Brachyspira hyodysenteriae.
6. Tail necrosis in piglets.
8. Vaccination against PCV2.
9. Diseases spread by artificial insemination.
10. Arthropods as vectors of pig diseases.
11. Epidemiology of Aujeszky's Disease.
13. Dyschondroplasia in breeding gilts.
1. A client has just set up a new outdoor breeding unit comprising 600 gilts and the first farrowings have been taking place over the last four weeks. During this time there has been an excessive number of pigs dying as a result of being overlain and, as a result thus far, pre-weaning mortality has reached 30%. Discuss the various possible causes for this and outline the advice you would give this client who is clearly very worried about the outcome of future farrowings.

2. Using specific examples as appropriate, discuss the way in which legislation in the United Kingdom has assisted the establishment and maintenance of biosecurity of pig farms. Within your answer, outline any limitations and pitfalls that you consider might exist in the legislation.

3. Discuss the management, husbandry and nutrition of breeding boars to optimise breeding performance in sows. List the advantages, if any, that you believe might accrue from the use of artificial insemination.
Candidates are required to answer ALL TEN of the following questions.

Allow 6 minutes per question.

Candidates are warned that illegible handwriting may result in examiners being unable to award marks for information which candidates intended to convey.

Write short notes on:

5. Manipulable materials.
6. Casualty slaughter.
7. Induction of farrowing.
10. Semen extenders.
11. Factors influencing P2 measurements.
12. Thermoneutrality.
13. Salmon oil.