

Diploma in Fish Health and Production

Please view the general documents to obtain copies of:

Introduction to the RCVS Diploma examination
Timetable
Guidance Notes B.1 - for candidates on general requirements.
Application form E.1 - for enrolment and initial approval of experience.
Role of Advisers

The following papers are attached:

- B.2:** Specific Guidance Notes for the Diploma. These notes explain what is required in terms of experience and in terms of the content of the Diploma examinations.
- B.3** Guidance on the preparations of Dissertations
- C:** Syllabus and Commentary for the Diploma.
- D:** Reading list.
- E:** Application Forms E.1A, E.1B and E.2.
- E.1A** - for specific details of practice
- E.1B** - Proposed title for Dissertation
- 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 Diploma and Specialist holders in Register of Members.

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

April 2007

The Royal College of Veterinary Surgeons
Specialisation and Further Education

THE DIPLOMA IN FISH HEALTH AND PRODUCTION

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 **not** a requirement of the Fish Health and Production Board that candidates entering for the Diploma are Members of the Royal College of Veterinary Surgeons (MsRCVS), although they will need to hold an approved veterinary degree.

SPECIFIC EXPERIENCE

2. No candidate may enter for the examination unless evidence has been submitted to the satisfaction of the Board that the candidate has spent, (or will have spent by the time of the examination) periods of time involving a substantial degree of participation, as defined by the Board, in the subject concerned.
3. Substantial involvement is defined as **at least 30 hours per week** dealing with and advising on health and production, diagnostic work, epidemiological investigations, research, literature reviews, preparation of reports, papers and articles and time spent in related activities. The Board would expect that a candidate would be involved in a variety of these activities.
4. It would be rare for the Diploma examination to be taken five years after graduation, (the minimum time possible). Rather, it would normally be taken some five years from the time when the candidate began to become involved full-time in the field concerned - and this would probably be taken two or three years (or more) after graduation.
5. The Board has the discretion to specify additional or particular experience for an individual candidate.
6. Candidates may gain experience for a Diploma, (a) at an approved centre for their subject or (b) at an approved practice.

Approved Centre Route

7. Candidates will need to spend **at least four years** gaining experience at an approved centre;
OR
at least five years gaining experience at an approved practice **which shall include 200 days** at an approved centre:

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

8. Candidates following the approved practice route will need to spend **at least six years** gaining experience.

There is no separate application form for approving practices other than the candidate applications forms included with this Information Pack. Practices are approved for each individual candidate.

9. 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.
10. Experience accepted for the Certificate will count towards the experience required for the Diploma, at the discretion of the Board, whether the candidate is at an approved centre or an approved practice.

THE EXAMINATION

11. The examination consists of three Sections:
- (a) A Dissertation
 - (b) TWO x 3 hour written papers, and
 - (c) a clinical, oral and practical examination.

SUBMITTED WORK FOR EXAMINATION

Dissertation

12. Application on Form E1B must be made for approval of the proposed subject of the dissertation by **1 November**. No exemption is permitted.
13. Candidates are required to submit a dissertation of some **5,000 -10,000 words (excluding appendices and references)** based on original material and data and incorporating personal observations, on a subject to be approved beforehand by the Board. The subject may be a research project in any aspect of fish disease and management, or the evaluation of preventive medicine or disease control schemes in which the candidate is personally involved. A preliminary choice of subject should be made at the time of enrolment (form E1B) or any time thereafter. A final choice must be made **by 1 November** in the year prior to the examination.

14. Candidates are asked, when proposing a subject, to give an **outline showing clearly what the dissertation will cover and how much of the work will be undertaken by the candidate personally.**
15. **Three** copies (of the dissertation) are required. The dissertation need not be bound but should be submitted in a cover in a secure manner. A copy of the dissertation of successful candidates will be placed in the RCVS Library for a period of five years. Each dissertation should, therefore, include a statement "Dissertation submitted as part of the requirements for the examination for the RCVS Diploma in Fish Health and Production" and should bear the candidate's name. **Candidates are asked to submit an electronic version of their submitted work together with their hard copies.** 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 CD. Please ensure that the disks are easily identifiable by placing them in an envelope with your name, and 'Electronic version of submitted work for Diploma in Fish Health and Production' marked clearly on the front.

Word Count

16. A word count must be shown on the front cover of the Dissertation.

Grading Scheme

17. The submitted work will be graded "Good Pass"; "Pass" or "Fail".
 - **Good Pass** – the work will be lodged in the RCVS Library as a suitable example for future candidates.
 - **Pass** – The work is adequate to enable the candidate to proceed to the remaining sections of the examination, but the submitted work may need to be revised by the date of the clinical, oral and practical for lodging in the Library if the candidate is successful in the examination as a whole.
 - **Fail** – the work is not adequate to enable a candidate to proceed to the remaining sections of the examination for the year in question.

WRITTEN EXAMINATION

18. 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. In addition, the examiners will take into consideration spelling and whether or not the question has been answered in the form requested.

Format

19. This Section consists of 2 three-hour written papers covering the syllabus generally.

Paper I - will consist of six questions of which five are to be answered

Paper II - will consist of two sections, including compulsory short answer questions. The candidate will have a choice of whether to be examined on ornamental or farm fish.

Marks Scheme

20. **Paper I** will be marked out of 50 marks
Paper II will be marked out of 50 marks
Total Mark for this Section (b) = 100 marks

CLINICAL, ORAL AND PRACTICAL EXAMINATION

General Format

21. This section of the examination may last up to three hours for each candidate. It will include an oral, and may include practical and/or clinical tests. Questions may be asked in relation to the dissertation submitted, and on any part of the syllabus.

Marks Scheme

22. TOTAL Mark for this Section (c) = 100 marks

SYLLABUS AND READING LIST

23. A detailed syllabus is provided. The standard of the examination will be high and different in concept from the relatively straightforward Certificate examination. Candidates will need to engage in extensive private studies. Anyone contemplating enrolment should realise that it will entail organising their personal workload so that they can take time off to study, either on a regular basis each week, or for short periods throughout the year.
24. The combined reading list for the Certificate and Diploma, which is provided for reference, was frozen in 2002. Candidates at this level are expected to be familiar with all literature in the area of their elective and most particularly so in the topic of their dissertation. Candidates are expected to do their own research and are recommended to make use of the RCVS Library and Information Service.

ADVISERS

25. Applicants are strongly recommended to have an adviser. The Board has not appointed a formal panel of advisers or supervisors but will put the applicant in touch with an appropriate senior colleague for advice on their studies and preparations for the examination (at present, members of the Board).
26. Candidates may need to take advice in relation to the requirements of the syllabus and on any experience, which they may need to obtain in respect of certain aspects of the syllabus. Such experience might be gained by spending time in a veterinary school or other appropriate institute - coupled with work in the field.

ATTENDANCE AT SHORT COURSES

27. The Board is not making attendance at any course or courses compulsory in terms of the byelaws, although candidates are obviously encouraged to attend as many relevant courses and meetings as possible.

ABBREVIATION FOR QUALIFICATION

28. Successful candidates for the Diploma in Fish Health and Production are entitled to use the abbreviation '**DFHP**' after their names in the RCVS Register of Members, and on practice plates, stationery, etc. Certificate holders who obtain the Diploma in the same subject cease to use the Certificate abbreviation:

April 1993

September 1994

May 1997

August 1997

Revised November 2001

Updated February 2003

Revised April 2005

**GENERAL GUIDANCE NOTES FOR DIPLOMA CANDIDATES
ON THE PREPARATION OF A DISSERTATION**

The dissertation should be presented in the normal format for a scientific article unless there are strong reasons why this is not appropriate: any different format should be approved by the supervisor before the first draft is produced.

The normal sections are:

Introduction

This should include a brief review of the literature on the subject giving appropriate references. References may be cited in one of two ways e.g. 'Smith and Brown (1993) found that parasites increased in July' or 'Previous studies have shown that parasites increased in July (Smith and Brown, 1993)'.

It should be a critical review to indicate what is already known and where the gaps are in our knowledge which you have set out to remove. At the end of the introduction, it should be possible to say ' In the light of the literature I have reviewed, the aims of this study are to plug the following gaps by carrying out the following work' or something to the same effect!

Materials and methods

This should include an account of the animals or flocks or specimens used and the experimental methods and techniques you have used in order to obtain your results. There is no need to give details of well-known techniques but it is important that a reader should be able to repeat the work and certainly be able to decide on the reliability of your techniques, which obviously affect the value of your results. If you use techniques developed by other people, you should refer to a book or journal where the details are published.

Results

There should be a logical description of what you have found by the techniques you have described. This section may benefit by the inclusion of tables, graphs, figures or photographs which should have captions which are sufficiently self-explanatory to stand alone, though they should also be referred to in the appropriate part of the text. This section should not contain any comments on the significance of the results or to any inconsistencies or problems encountered.

Discussion

This section should contain a critical discussion of the significance of the results and of the extent to which the aims described in the introduction have been achieved. It should also relate the new findings to previous work and it may therefore be necessary to quote again some of the papers cited in the introduction but for a different purpose. In the introduction, it was to show where the gaps were, here it is to show how your results agree, disagree or add to the previous work. Any conclusions or new ways of tackling the problem should be indicated here.

References

Unfortunately, there are a number of different ways used by different journals to list references in this list, so it isn't possible to lay down the one correct way! Since you might also wish to write your work as a paper for a journal, however, it is best to use a style which can be adapted to any journal, which means that the reference should be cited in full as follows:

Smith, M. J. and Jones, W. B. (1993). The seasonal fluctuations in parasite numbers in sheep in Britain. *Veterinary Record*, 134, 123 - 134.

A very careful check should be made to ensure that the references in the text are exactly the same as those in the list. (Trying this out on articles in any journal will give you a good idea as to the care with which the articles are edited by the authors or the journal).

Acknowledgements

This section gives you the opportunity to thank anyone who has helped with the work or the dissertation.

Appendices

If there is a great deal of detailed data such as laboratory findings, it may be helpful to place most of it in appendices with only summaries such as mean values in the results section.

THE ROYAL COLLEGE OF VETERINARY SURGEONS

DIPLOMA IN FISH HEALTH AND PRODUCTION

Commentary

Fish health and production covers all fish species, both ornamental and farmed, as well as shellfish, shrimp and aquatic invertebrates. Candidates should have gained a minimum of four years of experience in fish health and production before attempting the Diploma examination. They should have a more detailed knowledge of the following syllabus than is expected at Certificate level.

In the examination, Paper II of the written section will give candidates the choice of whether to be examined in ornamental or farmed fish. However the clinical oral and practical section will cover all species, as well as the candidates' own chosen field.

SYLLABUS

1. STRUCTURE AND ECONOMICS OF THE ORNAMENTAL FISH AND AQUACULTURE INDUSTRY

Species and their value

Imported species

Stratification including interdependence within each industry

Numbers and significance of main species in each system

 The use of records in fish improvement

 Use of computers

Targets of physical production for each system and methods for assessing economics of production

 Relationship to other farming systems, including alternative strategies

 Factors affecting profitability

 Marketing of fish

Water management including water improvement on potable water supplies

 Fish food production

 Dry matter outputs; utilisation percentages

Husbandry of fish

 Basic requirements and specifications

 Types of holding facility including comparative costs/benefits

Growth and development of aquatic animals

Carcase quality and evaluation in live and dead fish

 Preparation of carcasses for slaughter and consumption

 Embryonic and evolutionary development

Systems of aquatic management in the UK and elsewhere

International patterns of production

Welfare aspect of aquatic animal systems, marketing, trade and transport

Processing plants

2. REPRODUCTION AND BREEDING

Management of brood stock

Anatomy and physiology of female reproductive system

Endocrinology,

Sexual maturation changes,

Artificial control of maturation by triploidy.

Hormone administration and management practices.

Increasing fecundity

Anatomy and physiology of male reproductive system

Endocrine events.

Ova and semen collection

Fertilisation

Importance of selection genetics of fish

Semen collection, preparation and processing

Insemination procedures

Frozen semen

Cost/benefits

Genetic improvements

Principles of genetics

Defining selection objectives

Selection for carcass quality, reproduction performance

Assessment of fish by group breeding schemes

Aesthetics - colour patterns, body shape.

3. THE IMMATURE ANIMAL

Anatomy and physiology of juveniles, where appropriate

Causes of mortality in immature fish

Recording systems for fry mortality

Alleviation of major conditions

4. NUTRITION

Anatomy and physiology of the alimentary tract

Modern systems of assessing foodstuffs, metabolizable energy, protein, mineral, fat, fibre, digestibility

Major constituents of diets

Alternative dietary sources

Nutritional requirements of fish (maintenance and growing rations)

Targets for growth rate and marketing policy

Effect of nutrition on reproductive performance and disease incidence

Nutritional deficiencies

Diagnosis.

Treatment including cost/benefits

5. DISEASE

Clinical examination of fish and case recording
Diagnosis and control of commonly encountered diseases in the UK and Europe, and major international disease patterns
Significance of diseases in import/export/inland fish movement.
Timing and strategic use of therapeutants
Current concepts of immunity
Vaccination procedures for control of diseases
Knowledge of principles of diagnostic procedures (e.g.bacteriology, cytology, histology)
Knowledge of suitable chemical, enzyme and serological tests for diagnosis of disease and collection of suitable specimens
Notifiable disease
Zoonoses and Public Health
Diagnostic Imaging

6. THERAPEUTICS

Therapeutics of specific medicines and understanding of principles of pharmacokinetics and problems of tissue residues; withdrawal times - health and safety aspects of medicinal products.
Anaesthetic techniques and surgical procedures

7. WATER QUALITY

Chemical composition of water
Importance of maintenance of adequate environment
Equipment to maintain homeostasis -filters, pumps, feeders, heaters (how these work)
Measuring techniques
Consequences of water contamination, including public health aspects.

8. HEALTH PROGRAMMES

Statutory and voluntary control programmes
Health programmes
Methods of assessing pond health
Formulation of health programmes including economic evaluation of control principles for specific diseases
Methods of presenting health programmes to clients
Methods for monitoring programmes by visits

9. LEGISLATION.

Legislation relating to fish and shellfish

Legislation relating to Welfare codes including transport and marketing

Legislation relating to fish diseases and treatments

Legislation relating to processing plants

Legislation relating to water usage.

10. WELFARE

Handling and stocking density

Anaesthesia

Health control and therapeutics

Feeding/Starvation

Transport

Slaughter and disposal of surplus stocks

11. WELFARE CONSIDERATIONS

Candidates are reminded of their commitment as registered members of the Royal College of Veterinary Surgeons to pay attention to the welfare of animals under their care.

March 1993

Amended January 1994

Amended September 1994

Amended November 2002

READING LIST FOR FISH HEALTH AND PRODUCTION

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Candidates should note that the reading list for the Fish Health and Production 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.

The following reading list will be useful for candidates sitting the Certificate and/or Diploma in Fish Health and Production.

Those publications marked # are available in the RCVS Library (Tel: 020 7222-2021
Fax: 020 7222-2004)

MAINLY SALMONIDS (but also including other species)

Austin, B & Austin, DA (1987)	Bacterial fish pathogens: disease in farmed and wild fish 2 nd ed London: Ellis Horwood	#	ISBN 0130594946
Brown, LA [Ed] (1993)	Aquaculture for veterinarians: fish husbandry and medicine Oxford: Pergamon Press	#	ISBN 0080408354
Bruno, DW & Poppe, TT (1996)	A colour atlas of salmonid diseases London: Academic Press		ISBN 012137810-1
Frerichs, GN (1993) & Millar, SD	Manual for the isolation and Identification of fish bacterial Pathogens Stirling: Pisces Press and the Institute of Aquaculture	#	ISBN 0952119803
Holle D, Bucke D, Burgess P, Wellby I (2001)	Diseases of carp and other cyprinid fishes Oxford: Fishing News Books		ISBN 085238-2529
Inglis, V, Roberts, RJ & Bromage, NR [Eds] (1993)	Bacterial diseases of fish Oxford: Blackwell Scientific	#	ISBN 0632034971
Laird, LM & Needham, T [Eds] (1988)	Salmon and trout farming Chichester: Ellis Horwood		ISBN 0745800254
Roberts, RJ (2001)	Fish pathology 3rd edition London: Bailliere Tindall	#	ISBN 0702025631
Roberts, RJ & Shepherd CJ (1997)	Handbook of trout and salmon diseases 3rd edition Oxford: Blackwell Science	#	ISBN 0852382448
Ross, LG & Ross, B (1999)	Anaesthetic and sedative Techniques for Aquatic Animals 2 nd edition Oxford: Blackwell Science	#	ISBN 063205252X

Shepherd, CJ & Bromage NR [Eds] (1988)	Intensive fish farming Oxford: BSP Professional Books	# ISBN 0632019042
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MAINLY ORNAMENTALS (but also other species)

Andrews, C, Exell, A & Carrington N (1988)	The Manual of fish health London: Salamander Books Ltd	# ISBN 0861013689
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Bassleer, G (1996)	Diseases in marine aquarium fish Belguim: Bassleer Biofish, Westmeerbeek	
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Wildgoose, WH [Ed] (2001)	BSAVA Manual of ornamental fish 2 nd edition Gloucester: BSAVA	# ISBN 0905214579
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Dakin, N (1992)	The Book of the marine aquarium London: Salamander Books Ltd	ISBN 0861016408
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Elkan, E & Reichenbach- Klinke, H-H (1974)	Color atlas of the diseases of fishes, amphibians and reptiles New Jersey: TFH Publications Inc	# ISBN 0876660286
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Ford, DM [Ed] (1981)	The diseases of ornamental fishes Cheltenham: BSAVA (Waltham Symposium no 3) (Reprinted from J Small Anim.Pract. 1981 <u>22</u> , 311- 414)	#
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Hoffman, GL & Meyer, FP (1974)	Parasites of freshwater fishes New Jersey: TFH Publications Inc	ISBN 0876661304
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James, B (1987)	An Interpret guide to koi London: Salamander Books Ltd	ISBN 0861012798
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Noga, EJ (1996)	Fish disease: diagnosis and treatment St Louis: Mosby	# ISBN 1556643748
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Post, G (1987)	Textbook of fish health New Jersey: TFH Publications Inc	ISBN 0866224912
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Schaperclaus, W [Ed} (1991)	Fish diseases 2v 5 th ed New Delhi: Amerind Publishing Co	# TT 81-52150/1 & 2
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Scott, PW (1991)	The Complete aquarium London: Dorling Kindersley	# ISBN 0863186033
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Spotte, SH (1979)	Seawater aquariums: the captive environment New York: Wiley Interscience	ISBN 0471056650
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Stoskopf, MK [ED] (1993)	Fish medicine Philadelphia: WB Saunders	# ISBN 0721626297
Stoskopf, MK [Ed] (1988)	Tropical fish medicine Vet.Clin.N.Am.(SAP) <u>18</u> (2)	#
Untergasser, D (1989)	Handbook of fish diseases New Jersey: TFH Publications Inc	ISBN 0866227032

REFERENCES ON SPECIFIC ASPECTS OF FISH HEALTH AND PRODUCTION

Cooper, ME (1987)	An Introduction to animal law London: Academic Press	# ISBN 0121880303
Farm Animal Welfare Council (1996)	Report on the welfare of farmed fish Surbiton: MAFF	PB 2765
Halver, JE [Ed] (1989)	Fish nutrition 2nd ed San Diego: Academic Press	ISBN 0123196515
Herwig, N (1979)	Handbook of drugs and chemicals used in the treatment of fish diseases: a manual of fish pharmacology and materia medica Springfield, Illinois: Charles C Thomas	# ISBN 039803852X
Howarth, W (1990)	The Law of aquaculture: the law to the farming of fish and shellfish in Britain Oxford: Fishing News Books	ISBN 0852381700
Howarth, W (1990)	The Law of the National Rivers Authority Aberystwyth: NRA & Centre for Law in Rural Areas	ISBN 1872662005
Huet, M (1986)	Textbook of fish culture: breeding and cultivation of fish 2nd ed Farnham: Fishing News Books	# ISBN 0852381409
Leatherhead JF, Woo PTK [eds] (1998)	Fish diseases and disorders Vol 2; Non infectious disorders Oxon :CABI Publishing	ISBN 085199 1262

Poole T [ED] (1999)	The UFAW handbook on the care and management of Laboratory Animals 7 th Edition Vol 2: Amphibious and aquatic vertebrates and advanced invertebrates Oxford: Blackwell Science	ISBN 0632 051329
MAFF (1995)	Combating fish disease Weymouth: CEFAS	
MAFF (1995)	A guide to importing fish Weymouth: CEFAS	
May (1996)	A guide to shellfish health controls Weymouth: CEFAS	
Michel, C & Alderman, DJ (1991)	Chemotherapy in aquaculture: from theory to reality Paris: OIE	# ISBN 9290443014
Royal College of Veterinary Surgeons (1996)	Guide to professional conduct London: RCVS	#
Royal College of Veterinary Surgeons (1993)	Legislation affecting the veterinary profession in the United Kingdom London: RCVS	#
Schlotfeldt, HJ & Alderman, D (1995)	What should I do?: A practical guide for the freshwater fish farmer	ISBN 09526242
Scottish Office: Agriculture & Fisheries Department	Technical pamphlets and monthly Extracts available from: The Marine Laboratory, The Library: PO Box 101, Victoria Road, Torry, Aberdeen, Scotland. AB9 6BD	
Takashima, F & Hibiya, T (1995)	An atlas of fish histology: normal and pathological features 2 nd ed Stuttgart: Gustav Fischer Verlag	ISBN 3437307827
Treves-Brown, KM (2000)	Applied fish pharmacology Dordrecht: Kluwer Academic Publish	ISBN 0412621800
Wheaton, FW (1978)	Aquaculture engineering Chichester: Wiley	ISBN047193755X
Wolf, K (1988)	Fish viruses and fish viral diseases Ithaca: Comstock Publishing Associates	# ISBN 0801412595
Woo, PTK ed (1995)	Fish diseases and disorders. Vol 1: Protozoan and metazoan infections Oxon: CAB International	ISBN 0815988237

Woo PTK, Bruno DW, [ed] (1999)	Fish diseases and disorders Vol 3: Viral, Bacterial and Fungal Infections Oxon: CABI Publishing	ISBN 0851991947
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ASSOCIATIONS/SOCIETIES

British Trout Association (1992)	Code of practice for the production of rainbow trout. (London: BTA)	#
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Fish Veterinary Society	Guidelines on the welfare of farmed fish. Feb.1993. (Fish Veterinary Society Pub. No. 1)	#
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Kestin, SC (1993)	Pain and stress in fish. A report Prepared for the RSPCA. [Horsham: RSPCA (Internal report)]	#
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National Farmers' Union of Scotland. Fish Farming Section	Codes of recommendation for the husbandry and welfare of farmed fish 1986	#
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Pickering, AD [Ed] (1982)	Stress in fish. NY: Academic Press	
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Sainsbury A W	Pain assessment and euthanasia in Ectotherms Report: WSPA Scientific Section	
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Veterinary Medicines Directorate (1995)	AMELIA 8: The medicines (restrictions on the administration of veterinary medicinal products) Regulations 1994 (SI 1994/2987) Addlestone: VMD	
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Veterinary Medicines Directorate (1996)	AMELIA 11: Ecotoxicity testing of medicines intended for use in fish farming Addlestone: VMD	#
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World Society for the Protection of Animals (1994)	Pain assessment and euthanasia of ectotherms (Scientific Advisory Panel Report 09/90) Revised 02/94 WSPA	#
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SERIALS

Aquaculture Diseases of
aquatic organisms
Journal of aquatic animal
health
Journal of fish diseases
Progressive fish culturist
Recent advances in
aquaculture
(editors: Muir, JF, and
Roberts, RJ)
Veterinary Record

MAGAZINES

Aquarist and pond keeper
Fish farmer
Fish farming international
Koi Carp
Practical fish keeping
Salmon farming (from
SOAEFD)
Scottish fish farmer
Shellfish News
(from MAFF, Lowestoft)
Trout news (from MAFF,
Lowestoft)

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Useful addresses and contacts

Ornamental Aquatic Trade Association, Westbury	0870 0434013 (Keith Davenport)
Scottish Salmon Growers Association	01738 35973
William Crowe or John Webster	01738 35420
CEFAS at Weymouth	01305 206600
British Trout Association	020 8994 6477

March 1993
Amended January 1994
Amended September 1994
Amended August 1997
Amended Nov 2002

E1 (a)

PLEASE ENSURE THAT YOU COMPLETE A FORM E1 (TO BE FOUND IN THE COMMON DOCUMENTS) AND ATTACH IT TO THIS FORM

**THE ROYAL COLLEGE OF VETERINARY SURGEONS
SPECIALISATION AND FURTHER EDUCATION**

DIPLOMA IN FISH HEALTH AND PRODUCTION

Details of the veterinary practice in which experience has been or is being gained towards meeting the requirement of at least **five** calendar years of substantial experience prior to entry for the examination for the Diploma in Fish Health and Production:

(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. Approximate percentage of practice—time devoted to work in the field of fish health and production: _____%

5. Approximate percentage of your own time devoted to work in the field of fish health and production: _____%

6. Description of your work insofar as fish health and production is concerned (in relation to the syllabus):

7. Brief description of your other duties:

8. Any special equipment or facilities to which you have access in relation to your work and studies:

Signature _____ Date _____

PLEASE RETURN ORIGINAL FORM PLUS FOUR COPIES

PLEASE ENSURE THAT YOU COMPLETE A FORM E1 (TO BE FOUND IN THE COMMON DOCUMENTS) AND ATTACH IT TO THIS FORM

**THE ROYAL COLLEGE OF VETERINARY SURGEONS
SPECIALISATION AND FURTHER EDUCATION**

DIPLOMA IN FISH HEALTH & PRODUCTION

Proposed subject for dissertation

Candidates are required to submit, as part of the examination, a dissertation based on a research project in any aspect of fish disease and management, or on an evaluation of a preventive medicine or disease control scheme in which the candidate is personally involved.

Please state below the proposed title for your dissertation, and give a brief outline of the project or scheme on which it will be based and your own involvement therein:

Proposed Title:

Outline: (please attach separate sheet if required)

Signed: _____ Date: _____

PLEASE RETURN ORIGINAL FORM PLUS FOUR COPIES

**THE ROYAL COLLEGE OF VETERINARY SURGEONS
SPECIALISATION AND FURTHER EDUCATION**

Application for **FINAL** Approval of Experience and for permission to submit an entry to the next examination for the **DIPLOMA IN FISH HEALTH AND PRODUCTION**

NB This form must be completed and countersigned by your Adviser before return to the RCVS, Belgravia House, 62-64 Horseferry Road, London, SW1P 2AF by 1 November. NO LATE APPLICATIONS WILL BE ACCEPTED.

1. TITLE _____
2. NAME in full (block letters) _____
3. DEGREES/DIPLOMAS/CERTIFICATES _____
in abbreviated form
4. ADDRESS for all correspondence (block letters) _____

5. TELEPHONE NO(s) for contact during day _____
- FAX NO (s) for contact during day _____
- EMAIL _____

6. DATE OF ENROLMENT _____ (MONTH/YEAR)
If application for enrolment is being submitted concurrently with this application please state 'concurrent'.

7. PERIODS OF EXPERIENCE BEING OFFERED to meet the requirements of the byelaws

Veterinary practice or centre (name and address)	Period of Employment (to and from)	Certified by Adviser

If there has been any change in the work-load of the practice/centre or in your personal work-load since you applied for enrolment, please give details below:

8. Dissertation to be submitted

Title: _____

Has an outline been submitted {on form e1(b), to be in found in the Specific documents} and approved by the Board?

YES / NO

9. ATTENDANCE AT RELEVANT SHORT COURSES

Title of course attended:	Dates and venue:

10. OTHER INVOLVEMENT IN RELATION TO FISH HEALTH AND PRODUCTION

List any attendance (not already included on your CPD record card) at relevant congresses, conferences, meetings, symposia, etc., with dates:

Please send a photocopy of your RCVS CPD Record Card for all CPD events attended.

11. PUBLICATIONS/ARTICLES/PAPERS/LECTURES

Give details below or append a list, and include any involvement in the instruction of others:

12. OTHER POSTGRADUATE STUDIES

During the period of experience being offered, have you been, or are you studying for any other postgraduate qualification? YES / NO

If YES please give brief details:

13. I HEREBY APPLY FOR APPROVAL OF EXPERIENCE AND FOR PERMISSION TO SUBMIT AN ENTRY TO THE NEXT CERTIFICATE EXAMINATION IN FISH HEALTH AND PRODUCTION.

I certify that the period of experience being offered has not been/is not being offered to meet the requirements of the byelaws for any other RCVS Certificate or Diploma.

Signature: _____ Date: _____

14. CONFIRMATION OF INTENT TO SIT THE EXAMINATION

If final approval of experience is granted, I do / do not (delete as appropriate) intend to submit an entry to the next examination (closing date for receipt of entries is 1 March).

Signature: _____ Date: _____

PLEASE RETURN ORIGINAL FORM PLUS FOUR COPIES

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 _____

F

THERE IS NO LIST OF ADVISERS FOR THE
DIPLOMA IN FISH HEALTH AND
PRODUCTION

**THERE ARE NO EXAMINATION PAPERS FOR THE
DIPLOMA IN FISH HEALTH AND PRODUCTION**