

Reprint

as at 6 November 2008

Royal New Zealand Institute of Horticulture Examinations Approval Notice 1961

(SR 1961/122)

Royal New Zealand Institute of Horticulture Examinations Approval Notice 1961: revoked, on 6 November 2008, by clause 3 of the Regulations Revocation Order 2008 (SR 2008/367).

PURSUANT to the Royal New Zealand Institute of Horticulture Act 1953, the Minister of Agriculture hereby gives the following notice.

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This notice may be cited as the Royal New Zealand Institute of Horticulture Examinations Approval Notice 1961.

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The Minister of Agriculture hereby approves of the scheme of training and examination, submitted by the Examining Board

Note

Changes authorised by section 17C of the Acts and Regulations Publication Act 1989 have been made in this eprint.

A general outline of these changes is set out in the notes at the end of this eprint, together with other explanatory material about this eprint.

These regulations are administered in the Department of Agriculture.

of the Royal New Zealand Institute of Horticulture Incorporated with the authority of the said Institute, for the granting of Certificates and Diplomas in apiculture as set out in the Schedule hereto.

Schedule

Scheme of training and examination of candidates for Certificates and National Diploma in Apiculture of the Royal New Zealand Institute of Horticulture Incorporated

1

In this Schedule, unless the context otherwise requires,—

Diploma means the National Diploma in Apiculture (NDAp(NZ)) granted by the Institute

Institute means the Royal New Zealand Institute of Horticulture Incorporated

Intermediate Certificate means the Intermediate Certificate in Apiculture granted by the Institute

Junior Certificate means the Junior Certificate in Apiculture granted by the Institute.

2 **Award of certificates and diploma**

The Institute, on the recommendation of the Examining Board, may issue a Junior Certificate to a candidate who has passed the Junior Examination, an Intermediate Certificate to a candidate who has passed the Intermediate Examination, and a Diploma to a candidate who has passed the Diploma Examination:

Provided in each case that the candidate has satisfied all the conditions prescribed by the Board for the appropriate examination.

3 **General requirements**

- (1) The Examinations shall be open to candidates of either sex.
- (2) Before being eligible to qualify for any Certificate or the Diploma of the Institute, a candidate shall comply with the following conditions:

- (a) He shall register his name with the Institute:
Provided that no registration shall be effective before the 1st day of January nearest the candidate's sixteenth birthday:
- (b) He shall, on registration, furnish evidence that he has completed a course in Form II or has a qualification which the Examining Board accepts as an equivalent or higher qualification; or he shall satisfy the Examining Board that he is competent to proceed with the examinations of the Institute:
- (c) He shall submit for the approval of the Examining Board an account, in the form of a diary, of the work in which he has been engaged and of such other matters of apicultural interest as have engaged his attention, which diary shall be submitted by junior candidates on or before the 30th day of June in the year in which they intend to sit the examination, and by intermediate candidates on or before the 30th day of September in the year in which they intend to sit the examination:
- (d) He shall satisfy the Examining Board that he has had satisfactory practical experience in apiculture, including a substantial amount of practical work in apiculture, for the period prescribed for the examination concerned (hereafter in this Schedule referred to as practical experience):
Provided that if the Examining Board considers that the diary submitted by the candidate under paragraph (c) of this subclause is not satisfactory it may require the said period to be extended for such further term as it may determine.

4 Equivalent status

For the purpose of the award of a Certificate or a Diploma the Examining Board may, in its discretion,

- (a) Accept a pass in an equivalent or higher examination held by some competent public authority, as equivalent to a pass in the corresponding or a lower examination of the Institute; or accept a pass in one or more subjects

of such an examination as equivalent to a pass in one or more corresponding subjects of the Institute's examinations:

- (b) Waive any of the conditions of the examination if the Examining Board is satisfied that substantially equivalent conditions have been complied with by the candidate.

5 Conduct of examinations

- (1) The examinations for the Institute's Certificates and Diploma shall be held in the month of November in each year at such centres as may be recognised by the Examining Board from year to year as suitable and necessary.
- (2) Every candidate for an examination shall, not later than the 31st day of July immediately preceding the examination, give notice in such manner as the Examining Board may determine of his intention to sit the examination:
Provided that any application in respect of examinations conducted by the Education Department shall be forwarded to the Director of Education, Wellington C1

6 Examination fees

Every candidate for examination in respect of examinations by the Institute shall pay to the Institute a fee of 10s 6d for each subject.

7 Subjects of examination

- (1) The subjects for the Junior Examination, Intermediate Examination, and Diploma Examination shall be as follows:

Junior Examination

- (1) General science or chemistry, as prescribed for the School Certificate Examination conducted under regulation 6 of the Education (Post-primary Instruction) Regulations 1954¹;
- (2) Bookkeeping;
- (3) Horticultural botany;
- (4) Beekeeping;
- (5) Oral and practical examination (stage I):

Intermediate Examination

- (6) Entomology (stage I):
- (7) Apiary products:
- (8) Bee pasturage:
- (9) Oral and practical examination (stage II):

Diploma Examination

- (10) Entomology (stage II):
 - (11) Pathology:
 - (12) Oral and practical examination (stage III):
 - (13) Thesis.
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- (2) Notwithstanding anything in subclause (1) of this clause, the subject bookkeeping may be deferred and taken as part of the Intermediate Examination at any time before the examination is completed.
 - (3) The oral and practical examinations at each stage shall be combined, and the oral questions shall be asked mainly about the demonstration, practical operation, and identification performed by the candidate.

¹ SR 1954/120

8 Pass conditions

- (1) A pass in the Junior Examination shall not be awarded until the candidate has passed in all the subjects of that examination other than bookkeeping, and has satisfied the Examining Board that he has had two years' satisfactory practical experience in working with at least five colonies of bees.
- (2) The subjects general science or chemistry, bookkeeping, and horticultural botany may be taken at the examinations held in the month of November next following the registration of the candidate or at any subsequent examination:
Provided that they shall not be taken at the examinations held in November next following the registration of the candidate if the registration was effected later than the 30th day of April in the year in which the examinations are held.
- (3) The subject beekeeping, and the oral and practical examination (stage I), shall not be taken until the period of practical experience referred to in subclause (1) of this clause has been completed.
- (4) A pass in the Intermediate Examination shall not be awarded until the candidate has passed all the subjects of that examination, and has satisfied the Examining Board that he has had two years' satisfactory practical experience in working with at least five colonies of bees after passing the Junior Examination, or has had not less than four years in all of such practical experience.
- (5) The subject entomology (stage I) and the subject bee pasturage may be taken at the November examinations following the passing of the Junior Examination or at any examinations thereafter. The subject apiary products and the oral and practical examination (stage II) shall not be taken until the practical experience required for the award of an Intermediate Certificate has been obtained.
- (6) A pass in the Diploma Examination shall not be awarded until the candidate has passed all the subjects of that examination, and has satisfied the Examining Board that he has had two years' satisfactory practical experience in working with at least five colonies of bees after, passing the Intermediate

Examination, or has had not less than six years in all of such practical experience.

- (7) The subject entomology (stage II) and the subject pathology may be taken at the November examinations following the passing of the Intermediate Examination or at any examinations thereafter. The oral and practical examination (stage III) shall not be taken until the practical experience required for the award of the Diploma has been obtained.
- (8) Where the required period of practical experience will end not later than the 31st day of March in any year it may be assumed, but only for the purpose of entering for an examination, to have ended on the 31st day of October of the preceding year if the candidate undertakes to continue his employment till the required period of practical experience is completed.
- (9) The thesis for the Diploma shall be submitted to the Examining Board not later than the 30th day of September in the year of the examination, and not before the candidate is eligible to be examined for the oral and practical examination (stage III).
- (10) One or more subjects may be taken at a time, and a candidate may be credited with a pass in one or more subjects.
- (11) Notwithstanding the conditions laid down in subclauses (5) and (7) of this clause, if a candidate requires only one subject to complete a pass in one of the examinations, he may, if the Examining Board agrees, proceed with those subjects of the next higher examination which he would have been permitted to take had he secured a complete pass in the lower examination, but he shall not be credited with a pass in more than two subjects of the higher examination until he has completed all the requirements for a pass in the lower examination.
- (12) Notwithstanding anything hereinbefore provided, in the event of any student producing to the Examining Board evidence, in such form as it shall deem sufficient, of his intention to leave New Zealand for the purpose of pursuing his studies in apiculture abroad, the Board may approve of the student presenting himself for the examination for the Junior or Intermediate Certificate, or for the Diploma, after one of the two years of practical experience prescribed at that stage for the Certificate

or Diploma for which he desires to sit. If in any such case the candidate passes the examination, he shall be provisionally recognised as having done so, but the appropriate Certificate or Diploma shall not be issued until he produces satisfactory evidence of the completion by him of the required period of practical experience.

9 Thesis

Every candidate for the Diploma shall present a thesis dealing concisely with a subject concerning apiculture approved by the Examining Board. The candidate's choice of subject shall be submitted for the approval of the Examining Board not less than eight months before the date of the examination. In this thesis the candidate shall describe some work actually carried out by him and shall make explicit reference to any work he regards as original. He shall also append a bibliography of the subject. The thesis, together with a statutory declaration (in a form obtainable from the Institute) to the effect that it is substantially the candidate's own work, shall be submitted to the Examining Board not later than the 30th day of September in the year of the examination. The Examining Board shall examine the thesis and decide whether it is satisfactory. The thesis shall be regarded as the property of the candidate, and shall be returned to him as soon as the decision of the Board is made.

10 Examination of university graduates

Notwithstanding anything hereinbefore provided, any person holding the degree of Bachelor of Science of any University in New Zealand or any degree or diploma which the Examination Board accepts as equivalent to or higher than such a degree shall be eligible to sit for the Diploma Examination if he has passed in botany and zoology in the course for the degree or diploma; and

- (a) He has completed two years' practical general training in apiculture or has had two years' experience in commercial honey production in an apiary in New Zealand to the satisfaction of the Examining Board; or

- (b) He has had not less than 800 hours working experience in an apiary, together with either not less than two years' experience as a teacher of apiculture or some subject which in the opinion of the Examining Board is closely allied to apiculture, including adequate practical work; or not less than 18 months' experience in commercial honey production or in any other branch of specialised apiculture approved by the Examining Board.

11 Notification of results

Candidates shall be notified of the results of the examinations at the earliest opportunity.

12 Prescriptions of subjects

The prescriptions in the subjects of the examinations shall be as follows:

Junior Examination

General Science or Chemistry

- (1) The prescriptions for these subjects shall be those for the time being in force for the subjects for the School Certificate Examination conducted under regulation 6 of the Education (Post-primary Instruction) Regulations 1954.²

Bookkeeping

- (2) The recording of straight-forward cash and credit transactions in cashbook and journal: A knowledge of the preparation of a gross revenue and expenditure account: The keeping of time sheets and wages books: Tax deductions from wages: Elementary knowledge of banking, insurance, and general commercial practice.

Horticultural Botany

- (3) The candidate shall have had practice in the use of a hand lens and the drawing pencil and shall show a satisfactory elementary knowledge of the following, based on observation and simple experiments:

² SR 1954/120

- (a) The structure of plants, based on a study of the organs of a typical herb, shrub, and tree; the main life-forms of flowering plants for example, annuals, biennials, perennials, and climbing plants; and
- (b) The processes of nutrition, with special reference to absorption, translocation, and transpiration of water, together with the intake of food materials from the air and soil; carbon assimilation, nitrogen assimilation, and respiration; the elaboration of foods within the plant, especially carbohydrates and proteins, their consumption and storage; and
- (c) Methods of reproduction, asexual and sexual; and
- (d) The relation of the plant to its environment, including the influence of soils, water, light, temperature, wind; the chief resultant plant formations for example, forest, scrub, grasslands.

Beekeeping

- (4) The candidate shall show a satisfactory elementary knowledge of the following:

Races and strains of hive bees: Inmates of the hive, their development stages and life span: Division of labour in a colony of bees: Substances required and gathered by bees as nectar, pollen, propolis, and water.

Oral and Practical Examination (Stage I)

- (5) Components of a three-storey hive for extracted honey: Components of a three-storey hive for section-comb honey: Equipment necessary to work bees: Equipment of a honey house: Diseases of bees found in New Zealand and the methods of treatment.

Intermediate Examination

Entomology (Stage I)

- (6) The main divisions of the insect world: The morphology, habits of life, life history, means of distribution, and methods of control of insects significant to beekeeping by their effect on agriculture and horticulture:
The social insects and their economy: The anatomy and physiology of the honey bee.

Apiary Products

- (7) Honey, with special reference to the factors controlling nectar secretion, the harvesting of nectar, and its conveyance to the hive: The principal changes that take place during conversion of nectar into ripe honey and the means whereby these changes are brought about: Honey substances, honey granulation, and the uses of honey:
Beeswax, with special reference to the methods of production, including mechanical processes, and the tools used by bees in its production: The recovery of beeswax from bee combs: New Zealand Standard Specifications: The uses of beeswax.

Bee Pasturage

- (8) The plants which constitute the main sources of nectar and pollen in New Zealand, their flowering periods, and the characteristics of honey produced from them:
Elementary knowledge of the main genera significant to bee-keeping in the following botanical families:
Araliaceae
Coriariaceae
Cruciferae
Labiatae
Leguminosae
Liliaceae
Malvaceae
Ranunculaceae
Rosaceae
Salicaceae
Sapindaceae.

Oral and Practical Examination (Stage II)

- (9) Handling bees and hive manipulations: Swarming and swarm control: Supering hives: Recognition of bee diseases and treatment.

Diploma Examination

Entomology (Stage II)

- (10) Bees in relation to agriculture and horticulture: Crops that benefit by insect pollinators: Plant factors affecting visitation

of honey bees: The colony as a pollinating unit: Behaviour of bees in relation to pollination: Effects of agricultural practices on pollinating insects:

Effects of agricultural chemicals on honey bees.

Pathology

- (11) The diseases of bees with special reference to their symptoms and identification: The life histories of pathogenic organisms significant to beekeeping: The effect of diseases on the economy of the hive: The control of bee diseases: Legislation on bee diseases.

Oral and Practical Examination (Stage III)

- (12) *Apiary Management*—Queen rearing, requeening hives, and introduction of queen bees: Making hive increase: Uniting bees: Apiary diagnosis of bee diseases and their treatment: Feeding bees and feeders: Robbing and prevention: Shifting bees: Methods of avoiding bee stings: The sources of propolis and its use by bees: Taking a crop of honey: Honey packing: Beekeeping equipment: Legislation in relation to beekeeping in New Zealand:

Report on Commercial Apiary—Following an inspection carried out, in the presence of the examiners, of an apiary containing not less than 15 colonies of bees on a commercial site, the candidate will be required to furnish a written report on the general condition of the site, bees, and equipment of the apiary and on any action he may consider necessary to bring the apiary up to normal working standards.

Thesis

- (13) As prescribed in clause 9 of this Schedule.

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Notes

1 *General*

This is an eprint of the Royal New Zealand Institute of Horticulture Examinations Approval Notice 1961. It incorporates all the amendments to the notice as at 6 November 2008. The list of amendments at the end of these notes specifies all the amendments incorporated into this eprint since 3 September 2007. Relevant provisions of any amending enactments that contain transitional, savings, or application provisions are also included, after the Principal enactment, in chronological order.

2 *About this eprint*

This eprint has not been officialised. For more information about officialisation, please see “Making online legislation official” under “Status of legislation on this site” in the About section of this website.

3 *List of amendments incorporated in this eprint (most recent first)*

Regulations Revocation Order 2008 (SR 2008/367): clause 3
