

RBGE Certificate in Practical Horticulture 2018-19















Contents

1. Course Overview	3
2. Course Structure and Dates	4
3. Assessment Methods	5
3.1 Course Notes	5
3.2 Practical Exam	5
3.3 Certification & Grading	5
4. Course Fees	6
5. Application Procedure	6
6. Equipment Required	6
7. PropaGate Learning	7
8. Accessibility	7
9. Attendance and procedure if you miss a class	7
10. Unit Descriptors	8
CPH01 Looking at Plants	9
CPH02 Soil Care	10
CPH03 Feeding & Watering	11
CPH04 Seed Propagation	12
CPH05 Vegetative Propagation	13
CPH06 Growing Media & Potting	14
CPH07 Planting	15
CPH08 Pruning & Training	16
Application Form	17

1. Course Overview

The RBGE Certificate in Practical Horticulture (CPH) is for anyone who wants to acquire the fundamental practical skills of a horticulturist. There are many courses that teach horticultural theory, but this formal 10-day course (eight full-day taught units plus assessment), structured within a standard framework, focuses on the practical skills, taught by experienced and enthusiastic horticulturists. There is some theory provided to aid your understanding (in the form of short, highly visual presentations), but the course is designed to be delivered and assessed using a predominantly practical approach. Therefore for the majority of your time in the classes you will be "doing stuff" and will be getting "dirty hands!"

The CPH is a formal qualification and students must therefore pass the assessment to achieve the award. A *practical exam* at the end of the program forms the bulk of the assessment marks, but students are also required to show they understand the key points. This is done either as a notebook which is a record of their classes, or as worksheets with questions or as quizzes on PropaGate, RBGE's Online Learning Environment*. Students are also expected to practice their practical skills in their own time in addition to the formal classes, in order to prepare for the practical exam.

The CPH is endorsed by Botanic Gardens Conservation International (BGCI - who are the global organisation for botanic gardens) and is supported by the UK Stanley Smith Horticultural Trust, which is funding the development of delivery and support materials to facilitate the course being taught in a range of locations.

As well as in Edinburgh, the CPH is also delivered by partner centres supported and validated by RBGE. These include the Eden Project in Cornwall and the Nezahat Gökyiğit Botanic Garden in Istanbul, Turkey, Waterperrry Gardens in England, Glasgow Botanic Gardens in Scotland and Bute Produce on Bute, Scotland. RBGE staff are also delivering the CPH in countries as diverse as Oman and Laos, as part of their global capacity building and conservation programmes.

(* depending on the preference of the centre where the course is being offered)







2. Course Structure and Dates

September 2018 to June 2019

The CPH programme is delivered at RBGE but spread out from September 2018 – June 2019. The individual units take place on Saturday or Sunday from 9.30am – 4.30pm and take place at RBGE. Students who attend all eight units and complete the assessment are awarded the RBGE Certificate in Practical Horticulture. Please note you will not be able to swap between the two courses.

Unit Number	Unit Title	Saturday Sessions	Sunday Sessions
CPH-01	Looking at Plants	01 September 2018	02 September 2018
CPH-02	Soil Care	22 September 2018	23 September 2018
CPH-03	Feeding and Watering	06 October 2018	07 October 2018
CPH-07	Planting	27 October 2018	28 October 2018
CPH-08	Pruning & Training	02 March 2019	03 March 2019
CPH-04	Seed Propagation	30 March 2019	31 March 2019
CPH-06	Growing Media & Potting	27 April 2019	28 April 2019
CPH-05	Vegetative Propagation	11 May 2019	12 May 2019
CPH-R	Revision Day	08 June 2019	09 June 2019
CPH-A	Assessment Day	29 June 2019	30 June 2019

^{*}There will be an opportunity to resit the practical exam in July 2019. Date TBC.

(Please note the classes are not taught in numeric order as the units are matched to the growing season.)

3. Assessment Methods

This is a predominantly practical course, designed to assess a practical level of understanding and competence. Candidates will be assessed in two ways:

3.1 Practical Exam (80% of assessment marks)

Students are required to undertake a full day practical exam at the end of the course, which covers elements of all eight units studied within the programme. The practical exam will include an identification test but the bulk of the assessment will be tasks requiring the application of the practical horticultural skills developed during the course.

You are expected to show a significant level of competence in the practical test and are therefore recommended to spend some time outside the course practicing all the skills learnt, prior to the final assessment. You must pass the practical exam to be awarded the certificate.

3.2 Course Notes (20% of assessment marks)

There is a small theory element to the assessment, to show you have understood the key points. This will be in the form of quizzes on our online Learning Environment or worksheets. The worksheets should be completed and handed in to the course tutor on the day of the practical exam, before the practical exam begins. The worksheets will be marked and returned to you when you get your results. The online quizzes will be available after each class and need to be completed before the practical exam.

You are encouraged to take photographs, notes and make sketches during the class as this will help you to complete the worksheets and help you to revise for the practical exam.

3.3 Certification & Grading

Successful candidates will be awarded the 'RBGE Certificate in Practical Horticulture', which will be graded as follows:

Pass: 60%Merit: 75%

• Distinction: 85%

NB: If you gain less than 50% in any unit you will need to re-sit the unit. To gain a Distinction you must Pass (60%) every unit.

4. Course Fees

The cost for the course is £600. Full payment for the course is required on acceptance of a place.

5. Application Procedure

Candidates will be selected on the basis of the answers given to the questions on the application form at the back of the handbook. Please complete and return the form to us by Friday 20th July 2018.

PLEASE NOTE: you must apply using the application form at the back of this handbook. Applications using the short course booking form at the back of the RBGE course prospectus will not be considered.

Applicants will be notified if their application has been successful or not within 2 weeks of the application deadline date.

6. Equipment Required

This is a practical course so each module will involve indoor and outdoor work. Each week you will need to bring:

- Appropriate outdoor clothes (even indoor workstations can be cold).
- Steel toe-capped work boots.
- Packed lunch (tea and coffee will be provided).
- Bypass Secateurs.

Once you are accepted on the course we can advise you about what to buy and where to buy these items.

7. PropaGate Learning

PropaGate Learning is a website that you log into in order to access your course. It is a place for learning and for discussing topics and progress with your tutors and other students. PropaGate Learning allows you to study from home, whilst becoming part of a thriving and enthusiastic learning community.

As a student on the CPH, you will have access to this resource, which contains a wide range of learning materials to support your study, including links to useful websites, a discussion forum and videos. The teaching resources will be made available to you before each class and you will be able to complete the online assessments after the class, at your leisure.

8. Accessibility

Some of the units require a certain amount of physical activity. Please contact us if you have any concerns about this so that we can make any arrangements if necessary. Having spoken to you we may unfortunately suggest the course is not suitable for you.

Courses at RBGE are taught in the RBGE Nursery and the main garden. The RBGE Nursery is on Inverleith Avenue South (off Inverleith Place). There are accessible toilets in all locations.

9. Attendance and procedure if you miss a class

As this is a practical course, all students who wish to sit the practical exam must attend ALL of the classes to be eligible for the exam (though the Review Day is optional but strongly recommended). If you miss a class or are unable to attend you need to tell us as soon as you possible. Unfortunately you will not be able to join the other group on the Saturday or the Sunday, except under exceptional circumstances and by prior arrangement with RBGE. It may be possible to arrange for a catch up day, though there would be a fee* for this.

If you are unable to attend a class or miss a class, please contact the Education Office in the first instance. Contact details are 0131 248 2937 email: education@rbge.org.uk

*If more than one student is attending the catch up day this fee will be reduced accordingly.

10. Unit Descriptors

Descriptors for all units are on the following pages. Each descriptor states the:

- Learning Aim
- Learning Objectives
- Assessment guidelines

The following themes will be considered throughout all the units.

- Health and safety
- Environmental and sustainability issues
- Tools and equipment, maintenance and use
- Plant identification
- Plant pests and diseases
- Sourcing information
- Record keeping

Unit Title: Looking at Plants

Learning Aim:

Gain an overview of plants and how they are named.

Learning Objectives:

After completing this unit, the students will be able to:

- State the basics of plant lifecycles (i.e. annual, biennial and perennial).
- Use botanical plant names.
- Name plant structures.

Assessment:

- Plant identification: 10 plants from the list of 20 provided to studens.
- Correction of incorrectly written botanical plant names (i.e. format not spelling).
- Completed online quiz or worksheets.

Unit Number: CPH-02
Unit Title: Soil Care

Learning Aim:

Gain an understanding of the principles and practices of looking after the soil.

Learning Objectives:

After completing this unit, the students will be able to:

- Evaluate soil structure & texture.
- Determine soil pH.
- Cultivate soil by digging and forking
- Apply and/or incorporate organic matter to the soil.
- Remove weeds and prevent weed re-growth.
- Select the correct tools for cultivating soil.
- Maintenance of tools (including sharpening & cleaning).

Assessment:

- Digging and/or forking of an area of soil, including weed removal.
- Maintenance of tools.
- Completed online guiz or worksheets.

Unit Title: Feeding & Watering

Learning Aim:

Gain an understanding of the principles and practices of feeding & watering plants.

Learning Objectives:

After completing this unit, the students will be able to:

- State fertilizer types and application methods.
- Identify a range of irrigation equipment.
- Calculate fertilizer application rates, using step-by-step worksheets.
- Apply both liquid and granular fertilizer.
- Assess the irrigation needs of plants using appropriate irrigation terminology.
- Irrigate plants using a watering can and a hosepipe.

Assessment:

- Work out the correct amount of fertiliser to apply to a batch of plants/an area using the worksheets.
- Select and apply liquid or granular fertilizer to plants either in the ground or in containers.
- Assess the irrigation requirements of a batch of plants, irrigate as appropriate.
- Completed online quiz or worksheets.

Unit Title: Seed Propagation

Learning Aim:

Gain an understanding of the principles and practices of seed propagation.

Learning Objectives:

After completing this unit, the students will be able to:

- State the advantages and disadvantages of seed propagation.
- List the key environmental storage factors that affect seed viability.
- Clean seed prior to sowing.
- Prepare an outdoor soil seedbed.
- Flat drill & v-drill and direct drill sow seeds in the prepared soil bed.
- Correctly fill & prepare containers with seed sowing media.
- Broadcast & space sow seeds in the filled containers.
- Label & water all sown seeds.

Assessment:

- Prepare an outdoor seedbed.
- Sow seeds both by space sowing and broadcast methods in either containers or outdoor seedbed.
- Seeds must be covered, labelled and watered if appropriate.
- Completed online guiz or worksheets.

Unit Title: Vegetative Propagation

Learning Aim:

Gain an understanding of the principles and practices of vegetative propagation.

Learning Objectives:

After completing this unit, the students will be able to:

- State the advantages and disadvantages of vegetative propagation.
- State the different methods of vegetative propagation.
- Select appropriate vegetative propagation material.
- Collect, prepare & insert a range of cuttings.
- State the factors important in the propagation environment (inc. media).
- Carry out the aftercare of propagated material (inc. labelling and watering).
- Divide herbaceous plants.

Assessment:

- Propagate two different plants. At least one of these must be by cuttings.
- Collect, prepare and insert the vegetative material. Labelling must be carried out correctly.
- Completed online quiz or worksheets.

Unit Title: Growing Media & Potting

Learning Aim:

Gain an understanding of the principles and practices growing plants in pots and different growing media.

Learning Objectives:

After completing this unit, the students will be able to:

- State the reasons for growing plants in containers.
- Select appropriate pots for a range of different plants.
- Identify the properties of a range of different growing media ingredients.
- State how to mix a batch of growing media.
- Prick-out seedlings into small pots.
- Pot-on plants into a larger pot size.
- Demonstrate potting correctly in relation to depth of plant, level of growing media, positioning of plant in centre of pot and firmness of media.
- Carry out the immediate aftercare of plants that have been potted e.g. standing down and irrigating.

Assessment:

- Decide if plants need to be potted and choose appropriate containers for them.
- 'Prick-out' and/or 'pot-on' a batch of plants.
- Irrigate the batch of plants using a watering can or hosepipe.
- Completed online guiz or worksheets.

Unit Number: CPH-07
Unit Title: Planting

Learning Aim:

Gain an understanding of the principles and methods of planting plants in soil.

Learning Objectives:

After completing this unit, the students will be able to:

- State planting techniques for a range of different types and sizes of plants.
- State a range of tree support mechanisms and when to use them.
- State the reasons for using mulches & a range of materials that can be used.
- Prepare & mark out an area for planting.
- Plant out the area with small plants following a given plan.
- Demonstrate the planting and support of a standard sized tree
- Water & mulch post-planting.
- Select & maintain tools.

Assessment:

- Plant an individual specimen tree or large shrub, involving the use of a support mechanism, or plant out a number of small plants following a given plan.
- Completed online quiz or worksheets.

Unit Title: Pruning & Training

Learning Aim:

Gain an understanding of the principles of pruning and training plants

Learning Objectives:

After completing this unit, the students will be able to:

- List the reasons for pruning and training plants.
- Describe alternate methods for pruning and training plants.
- Clean and sharpen bypass secateurs.
- Use secateurs to prune plants correctly.
- Use a hand saw to carry out 3-point pruning to remove thicker branches.
- Select correct tools and materials for pruning and training.
- Tie plants to canes or other support structures.

Assessment:

- Carry out the appropriate training and pruning of a given plant(s).
- Completed online quiz or worksheets.



Application Form

RBGE Certificate in Practical Horticulture (CERT PH)

Please send your completed form to:

Education Administrator (Cert PH) Royal Botanic Garden Edinburgh 20a Inverleith Row Edinburgh EH3 5LR

Candidates will be selected on the basis of the answers given to the questions below. Please complete and return this form to us by Friday 20th July 2018.

1. Personal Details

Name:	Contact Numbers:
Address:	Daytime:
	Evening:
	Mobile:
Nationality:	
Email Address	

Where did	you hea	ar ab	out this course?				
Do you ha	Do you have any additional support needs? Please give details.						
2. Course	Options						
Dioaso sole	act the c	OLIKE	e you wish to app	ly for			
Please sele	ect the c	Ours	e you wish to app	ly ior.			
First Choice				Second Che			
☐ Saturday ☐ Sunday C				□ Saturday □ Sunday C			
<u> </u>	JOUI 50			ш очных, з	, oui 5 .	•	
Payment:							
Please do	not send	any	money with this	form, you wi	II be a	asked fo	r payment
Please do not send any money with this form, you will be asked for payment when you are offered a place on the course.							
For office Date appli		/ :	<u> </u>	Reference			
received	Cation			Number			
Offered	Yes /	No	Date:	Place	Yes	/ No	Date:
place	,		20.00.	accepted		,	D 0.10.