

Plant Health Professional Register Guidance for applicants

This document provides guidance on the competency framework used for assessing candidates applications for inclusion on the Plant Health Professional Register together with information on the application process and the time frame for applications for 2016/2017.

The Plant Health Professional Register has been created in response to the Department of Environment, Food and Rural Affairs (Defra) and Government Office of Science reports¹ recommending development of plant health skills and creating opportunities for a wider community of trained plant health professionals. The Plant Health Professional Register will be overseen by the Royal Society of Biology.

The Department will work with professional bodies to embed greater awareness of plant health as a key competency and component of continuous professional development, and to enhance the official training programme for inspectors, providing a better and more professional service.

Inclusion on the Plant Health Professional Register is about having an in-depth understanding and knowledge of how your role fits with and supports 'Protecting Plant Health – A Plant Biosecurity Strategy for Great Britain'. https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/307355/pb14168-plant-health-strategy.pdf

You will recognise that plants and trees are an essential economic, environmental and social asset making a vital contribution to our food and timber supply, rural economy and provide important ecosystem services.

For all applicants, it is about focusing your contribution on the activities which will help in protecting agriculture, forestry and the natural environment both nationally and internationally whilst recognising the need and importance of international trade in plants and plant products. You will understand that threats to plant biosecurity have increased with the globalisation of trade and travel and that predicted climate change effects may influence the impact of damaging pests not yet present in the UK, but also ones that are present and have associated management practices. The level of your involvement and influence will range from local, regional, national to international and short term to long-term with increasing responsibility and competency level from associate, to registered to senior plant health professional.

Assessors will be looking for evidence for the following areas in tree health and plant biosecurity:

Understand:

- What plant biosecurity is, the principles of good practice and why it is important
- The range of plant pests and diseases that can cause damage, how they may be introduced and/or spread

¹ [Defra/GoS \(Dec 2014\) Animal and Plant Health in the UK: Building our science capability](#)

[Defra \(April 2014\) Protecting Plant Health-a Plant Biosecurity Strategy for Great Britain](#)

- The value of the accurate identification of both hosts and pests and the approaches used to achieve this
- Impacts of pests and diseases on agriculture, forestry and horticulture throughout the entire supply chain and the impact on landscape, amenity and the wider environment
- principles of protecting plant health through risk based decision making and the appropriate use of international Phytosanitary legislation
- factors that can influence risk such as globalisation of trade and predicted climate change
- responsibility for reducing risk sits with those who benefit from the reduction of those risks (where appropriate)
- diversity of organisations affected by plant health
- impact of pests and diseases on health and safety particularly in relation to trees e.g. Oak Processionary Moth or Tree /limb falls due to cankers etc.
- principles, implementation and impact of control strategies and measures
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The level of knowledge and evidence will increase with the competency level from associate, to registered to senior plant health professional.

Competency framework

The application for inclusion on the Plant Health Professional Register is based on a competency framework. The assessors will therefore be looking for examples of how your knowledge and expertise is applied to each of the required areas. Applicants may wish to use a STAR approach in providing evidence for each competency as this may help you to focus on your specific role/knowledge rather than a more general knowledge. The STAR approach is described below:

Situation: A brief explanation of the context in which the problem/challenge is defined.

Task: A description of what the applicant needed to achieve within the given situation to include the desired outcome.

Action: A description of what the applicant did and the reasons why

Result: A description of the outcomes of the applicant's action.

It is recommended that your response for each competency should be up to 350 words.

The table below provides an overview of the type of evidence that the assessors will be looking for in relation to each competency. This is followed by more detailed examples of the type of evidence that could be provided at each of the three levels – Associate, Registered and Senior.

Competency	Assessment
1. Understand how Plant Health Services operate in the UK and reporting mechanisms for plant health concerns	Assessors will need to see how your specialist practical knowledge contributes to the operation of UK Plant Health Services
2. Understand the significance of: a) International Plant Health Standards b) International Plant Protection Convention c) EU Plant Health regime d) Plant Health and Plant Health (Forestry) Orders and associated powers. d) Procedures for import of Licensed plant pests, pathogens, soil and plants	Assessors will need to see an explanation of your understanding of the significance of standards and regulations connected to UK plant health in relation to your role
3. Understand Plant Biosecurity Continuum	Assessors will need to see an explanation of your understanding of surveillance and inspection regimes and the use of different surveillance, detection and identification approaches in relation to your role
4. Demonstrate communication of risks and plant health policy	Assessors will need to see examples of how you communicate your specialist practical knowledge to support Plant Health Services in the UK
5. Understand the National Legal Plant Health framework-roles and responsibilities a) <i>within</i> your organisation b) <i>outside</i> your organisation with stakeholders and officials c) Plant Health and Plant Health (Forestry) Orders and associated powers.	Assessors need to see that you understand the roles and responsibilities of all parties that support the National Legal Plant Health framework and examples of how you utilise this knowledge
6. Understand risk based decision making and identify which pests and pathogens are	Assessors will need to see examples of your knowledge of the risks posed by pests and the reasons why they are a risk

<i>high risk within your area of work</i>	
7. Understand the <i>range</i> of notifiable pests and pathogens that threaten the UK	Assessors will need to see examples of your knowledge of the breadth of species that are of concern to UK plant health and how and why sampling strategies contribute to UK plant health
8. Understand how trade in commodities provides pathways of introduction that impact on biosecurity and measures taken to reduce risk and prevent introduction	Assessors will need to see examples of your understanding of how trade affects introduction and spread of pests and the measures that can be taken to reduce this risk
9. Demonstrate knowledge of good biosecurity practice within work area	Assessors will need to see examples of how you implement biosecurity practices in your work area
10. Contingency planning and outbreak management	Assessors will need to see examples of your knowledge of contingency planning in your work area and how this is implemented
11. Understand the impact of control strategies and measures on: a) economic losses b) social and environmental impact c) health and safety	Assessors will need to see examples of your knowledge of control strategies and measures in relation to your work area

Competency	Assessors will be looking for evidence that you know / do / take an active part in:			Plant Biosecurity Strategy for GB report ref
	Associate	Registered	Senior	
Competency Cluster 1. Plant Health Regulations				
1. Understand how Plant Health Services operate in the UK and reporting mechanisms for plant health concerns	<p>Be able to describe the different government departments responsible for Plant Health and Forestry in the UK</p> <p>Be able to define "biosecurity"</p>	<p>Understand the flow of information and decisions about plant health in your organisation</p> <p>Understand the economic significance, diversity of trade and natural environment that could be affected by biosecurity</p> <p>Understand good biosecurity practice</p>	<p>Initiate the flow of information and decision making within your organisation and communicate with counterparts in other UK organisations.</p>	Page 6
<p>2. Understand the significance of:</p> <p>a) International Plant Health Standards</p> <p>b) International Plant Protection Convention</p> <p>c) EU Plant Health regime</p>	<p>Be able to explain the basic principles of at least one of the standards (a-d) and how it helps protect plant biosecurity .</p> <p>Explain how UK regulations fit in with other international</p>	<p>Understand in detail the application of the standards in one country and be familiar with differences between countries. -</p> <p>Have an appreciation of the global spread of pests and pathogens and opportunities for improved biosecurity</p>	<p>Actively contribute to national and international initiatives to improve practices</p> <p>Disseminate good practice internationally</p>	<p>p 15</p> <p>p 16</p>

<p>d) Plant Health and Plant Health (Forestry) Orders and associated powers.</p> <p>d) Procedures for import of Licensed plant pests, pathogens, soil and plants</p>	<p>phytosanitary agreements and requirements</p> <p>Demonstrate the ability to work safely in quarantine licensed facilities</p>	<p>Have a working knowledge of prohibited, controlled and uncontrolled classifications.</p> <p>Use phytosanitary certificates and plant passports</p> <p>Know the containment and mitigation strategies for working with quarantine licensed organisms</p>		
<p>3. Understand Plant Biosecurity Continuum</p>	<p>Be able to explain the concept of pre-border, border and inland surveillance</p> <p>Be able to give examples of different types of surveillance, inspection or Identification approaches (select at least 1)</p>	<p>Have an appreciation of border activity and opportunities for improved biosecurity</p> <p>Understand different technologies and their benefits/limitations for surveillance, inspection, diagnosis and identification</p>	<p>Implement new detection methodologies and control strategies and enhance intelligence with stakeholders</p>	<p>p 18</p>
<p>Competency Cluster 2</p> <p>Roles and responsibilities in reporting plant health concerns</p>				
<p>4. Demonstrate communication of risks and plant health policy</p>	<p>Explain your job to others and its role in UK biosecurity</p>	<p>Make use of existing networks of communication and/or developing new ones</p>	<p>Lead negotiate and support regional, national and international plant health policy and campaigns to enhance</p>	<p>p 13/14</p>

			Plant Biosecurity	
<p>5. Understand the National Legal Plant Health framework- roles and responsibilities</p> <p>a) <i>within</i> your organisation</p> <p>b) <i>outside</i> your organisation with stakeholders and officials</p> <p>c) Plant Health and Plant Health (Forestry) Orders and associated powers.</p>	<p>Be able to explain:</p> <p>who is responsible for surveillance, monitoring, containment/eradication and reporting pests and diseases in your organisation</p> <p>Statutory action in your organisation</p> <p>Give examples of who else might be affected across various sectors and the impacts on their work</p>	<p>Understand the need to escalate potential plant health concerns.</p> <p>Monitor data and reports from those responsible. Use the Pest Risk Register and other reference points for informing decisions</p> <p>Work with sectors to develop good practice e.g. certification schemes with industry</p>	<p>Analyse data and recommendations for action at an organisational level</p> <p>Disseminate good practice; understanding and overcoming barriers to certification or similar schemes amongst stakeholders</p>	p 20
<p>Competency Cluster 3</p> <p>Risk based decision making</p>				
<p>6. Understand risk based decision making and identify which pests and pathogens are <i>high risk within your area</i> of work</p>	<p>Be able to describe the range of organisms and the damage/symptoms they may cause</p> <p>Be able to identify which pests and pathogens are high risk and why and where you find out this</p>	<p>Be aware and able to explain that not all pests and pathogens present a significant risk. Understand risk based decision making and knowledge of the principles of risk assessment and the UK Risk Register.</p> <p>Know the process for</p>	<p>Be able to explain the significance of accurate identification and the consequences of taxonomic revision</p> <p>Monitor, manage and review your team's performance in dealing</p>	Page 11 (risk register)

	information	containment/eradication and EU notification of Listed and high risk pests and pathogens. Understand the implications on international trade of submitting quarantine pest/pathogen notifications	with high risk pests and pathogens and contribute to strategy for their control. Influence policy following identification of new plant health risks. Communicate risks appropriately and follow up action where needed	
7. Understand the <i>range</i> of notifiable pests and pathogens that threaten the UK	Be able to give examples of the range of pest and pathogens detrimental to plant health, common symptoms to help recognise them and examples of common hosts they affect Be able to give examples of taking different types of samples and packaging for plant pest and disease diagnosis	Be aware of new and emerging problems within and threatening the UK Be able to use the Risk Register for 'horizon scanning' for new and emerging problems relevant to your business Design and develop sampling strategies on a local basis and review effectiveness	Inform your team of the results of horizon scanning and changes to the Risk Register ensuring they are upskilled as required. Design, develop and critically assess sampling strategies and effectiveness on a regional and national basis	Page 11 (risk register)

<p>8. Understand how trade in commodities provides pathways of introduction that impact on biosecurity and measures taken to reduce risk and prevent introduction</p>	<p>Demonstrate awareness of the significance of the different origin of plants, wood, wood products and bark and other materials capable of harbouring pests and pathogens</p> <p>Explain how plant pests and diseases may be introduced or spread (Introduction pathways)</p>	<p>Know how pests and pathogens spread naturally such as via air, water, soil and via vectors</p> <p>Have the principles of how to manage a programme of quarantine pest and disease surveillance and subsequent action</p>	<p>Demonstrate an understanding of different pest and pathogen lifecycles and survival strategies and the significance on control strategies</p> <p>Measure and use strategies to prevent introduction and spread</p>	<p>p 12 (PRAs)</p>
<p>Competency Cluster 4</p> <p>Contingency planning and outbreak management</p>				
<p>9. Demonstrate knowledge of good biosecurity practice within work area</p>	<p>Give examples of how you carry out biosecurity practices to prevent spread of plant pests and diseases within work area</p>	<p>Use and improve biosecurity protocols to deal with pest and disease management within your organisation.</p>	<p>Develop biosecurity protocols to deal with pest and disease management on a national basis</p> <p>Awareness and adaption of international protocols</p>	<p>P21</p>
<p>10. Contingency planning and outbreak management</p>	<p>Give an example of steps you take to prevent the introduction or spread of a pest as part of outbreak</p>	<p>Preparedness for outbreak management</p> <p>Have processes for and undertake resilience testing of</p>	<p>Testing new ways to enact speedier, effective methods of outbreak control</p> <p>Knowledge and adoption</p>	<p>p 20</p>

	management or contingency planning for your work area	contingency plans	of industry best practice as applicable	
11. Understand the impact of control strategies and measures on: a) economic losses b) social and environmental impact c) health and safety	Give examples of how the introduction of a pest or disease may impact upon economic, social, environmental and health and safety issues	Understand the impact of an outbreak and management practices at a regional level	Understand the impact of an outbreak and management practices at a national and international level	P21

The application process

Applications are made via the MySociety page of the Royal Society of Biology website (www.rsb.org.uk). Persons applying for the Plant Health Professional Register must have membership of the Royal Society of Biology of at least the Affiliate grade. You must first apply for affiliate membership, once you have submitted your membership application you can then apply to join the register. Your affiliate membership application to the Royal Society of Biology will then permit your application to the Plant Health Professionals register on the website in My Society.

There are two routes to membership depending on your circumstances:

1. You can be invited to join affiliate membership if part of a group. Please liaise with your mentor who can organize a group application and payment for membership.
2. If applying individually please apply to join in MySociety at the affiliate level where payment will be requested.

Once an application for affiliate membership has been completed and submitted, you can proceed with your application to the register

The location of the Plant Health Register application page is shown below:

Either:

Login directly to the My Society area



Then go to My Registers and then Plant Health Professionals on the right hand menu



Alternatively

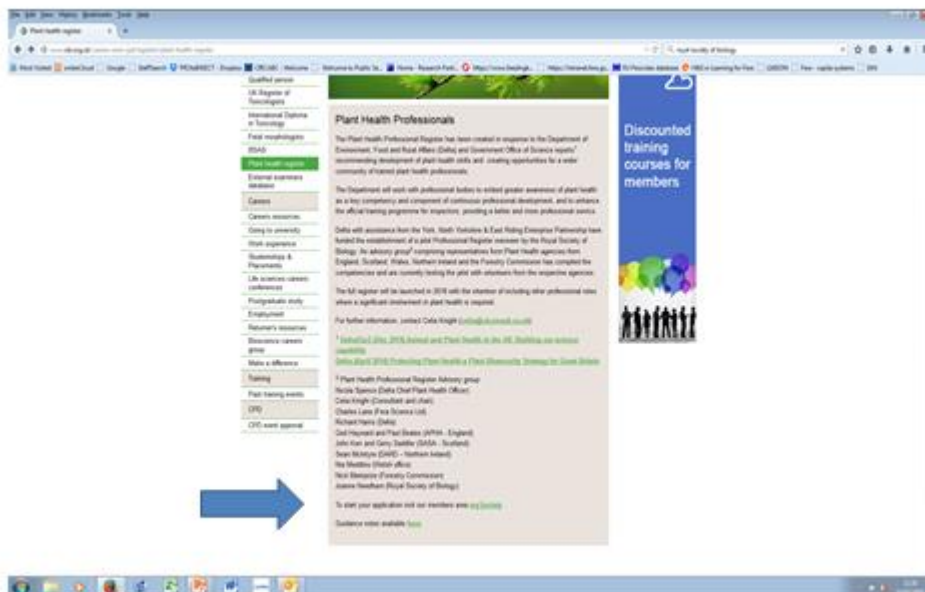
Go to Careers and CPD and then Registers



Go to Plant Health Register



Towards the bottom of the page click on My Society



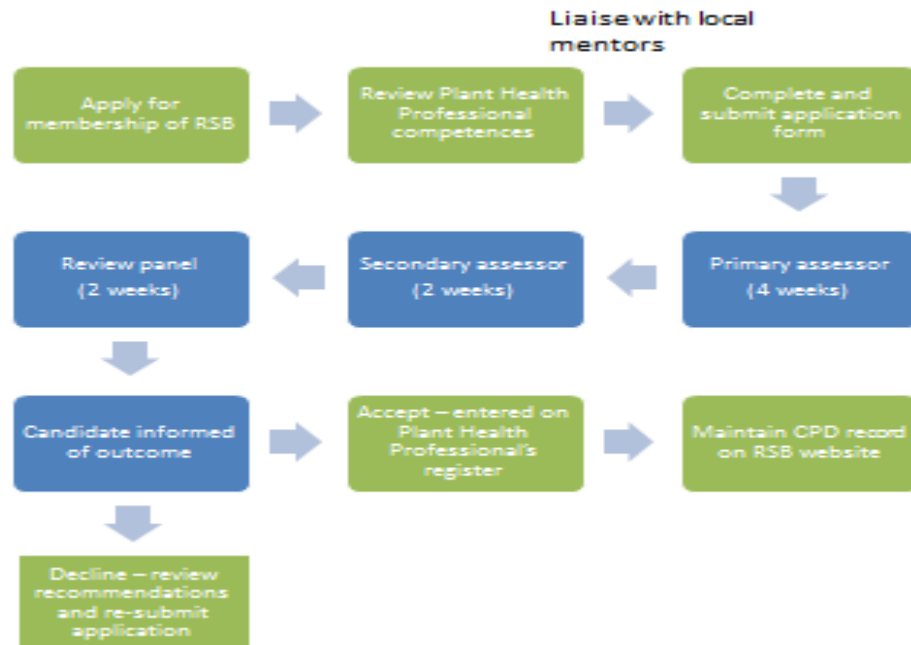
Login to the My Society page then go to My Registers and then Plant Health Professionals on the right hand menu



Applications to the Plant Health Professionals register should be completed in full in all sections and submitted electronically in MySociety to be considered by assessors.

Applications for 2016/2017

The diagram below shows an overview of the application and assessment process. The tasks in green boxes are for completion by the applicant. The tasks in blue boxes indicate the assessment procedure.



The timetable for applications in 2016/2017 is shown below:

Application deadlines

1st April 2016

1st July 2016

1st October 2016

1st January 2017

Over this period we need to stage the applications in order to deal with the numbers we anticipate applying. Please discuss with your local mentor the appropriate quarter for your application.