

The European network evaluation of the PHAR-QA framework of

The European network evaluation of the PHAR-QA framework of competences for...

The PHAR-QA ("Quality assurance in European pharmacy education and training") funded by the European Commission, will produce a framework of competences for pharmacy practice and a quality assurance system to back this up.

The PHAR-QA competence framework is primarily in line with the EU directive on the sectoral profession of pharmacy but also takes into account the diversity of the pharmacy profession and the on-going changes in European healthcare systems (with an increasingly important role for pharmacists), and in the pharmaceutical/biotechnological industry. Changes in the European Higher Education Area, especially those involving the bachelor and master degree organisation are also considered.

You are asked to rank the importance of the competences bearing in mind that fact that this survey applies to the wide range of domains of pharmaceutical activity. Responders should concentrate on competences needed for all pharmacists - not only on those for their speciality. It also applies to Europe - minor differences in different countries should not be stressed.

The ranking scale is as follows:

1. Not important = Can be ignored.
2. Quite important = Valuable but not obligatory.
3. Very important = Obligatory with exceptions depending upon field of pharmacy practice.
4. Essential = Obligatory.
5. I cannot rank this competence.

In the "Any comments" box you can:

- explain your ranking,
- explain why you were unable to rank a competence,
- suggest competence(s) that should be added.

If you wish to change your ranking for one or several competences click on the "Previous" button to reach the relevant page(s) before the final validation of your replies.

Following analysis of your replies, a second version will be produced for your evaluation. Following refinement of the framework via this repetitive Delphi process, a final version will be produced. This will form the basis of the PHAR-QA quality assurance system.

Further information can be obtained from Jeffrey ATKINSON, executive director of PHAR-QA.
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Thank you for participating in this survey.

A final check before distribution to European network.

The survey should work on all browsers.
Your comments on format are most welcome.

Your details.

1. What is your age?

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2. Country of residence.

If you choose other, please specify.

3. Current occupation.

If you choose other, please specify.

Your details (cont'd).

4. If you are a student, what is your year of enrolment?

If you choose other, please specify.

5. If you are a professional (licensed practitioner, academic staff...), how long have you been practising?

6. Job title

Personal competences.

Personal competences: learning and knowledge.

The pharmacist as an expert.

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7. Personal competences: learning and knowledge.

According to your experience how would you rank each competence?

	Not important.	Quite important.	Very important.	Essential.	I cannot rank this competence.
1. Ability to identify learning needs and to learn independently (including continuous professional development (CPD)).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Analysis: ability to apply logic to problem solving, evaluating pros and cons and following up on the solution found.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Synthesis: capacity to gather and critically appraise relevant knowledge and to summarise the key points.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Capacity to evaluate scientific data in line with current scientific and technological knowledge.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Ability to interpret preclinical and clinical evidence-based medical science and apply the knowledge to pharmaceutical practice.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. Ability to design and conduct research using appropriate methodology.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. Ability to maintain current knowledge of relevant legislation and codes of pharmacy practice.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Any comments?

Personal competences: values.

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8. Personal competences: values.

According to your experience how would you rank each competence?

	Not important	Quite important	Very important	Essential	I cannot rank this competence.
1. Demonstrate a professional approach to tasks and human relations.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Demonstrate the ability to maintain confidentiality.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Take full personal responsibility for patient care and other aspects of one's practice.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Inspire the confidence of others in one's actions and advice.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Demonstrate high ethical standards.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Any comments?

Personal competences: communication and organisational skills.

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9. Personal competences: communication and organisational skills.

According to your experience how would you rank each competence?

	Not important.	Quite important.	Very important.	Essential.	I cannot rank this competence.
1. Effective communication skills (both orally and written).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Effective use of information technology.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Ability to work effectively as part of a team.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Ability to identify and implement legal and professional requirements relating to employment (e.g. for pharmacy technicians) and to safety in the workplace.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Ability to contribute to the learning and training of staff.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. Ability to design and manage the development processes in the production of medicines.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. Ability to identify and manage risk and quality of service issues.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. Ability to identify the need for new services.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. Ability to communicate in English and/or locally relevant languages.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. Ability to evaluate issues related to quality of service.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11. Ability to negotiate, understand a business environment and develop entrepreneurship.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Any comments?

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Personal competences: comprehension in different areas of the science of me...

10. Personal competences: comprehension in different areas of the science of medicines.

According to your experience how would you rank the competence for the need for understanding in the various areas below?

	Not important.	Quite important.	Very important.	Essential.	I cannot rank this competence.
1. Plant and animal biology.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Physics.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. General and inorganic chemistry.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Organic and medicinal/pharmaceutical chemistry.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Analytical chemistry.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. General and applied biochemistry (medicinal and clinical).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. Anatomy and physiology; medical terminology.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. Microbiology.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. Pharmacology including pharmacokinetics.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. Pharmacotherapy and pharmaco-epidemiology.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11. Pharmaceutical technology including analyses of medicinal products.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12. Toxicology.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13. Pharmacognosy.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14. Legislation and professional ethics.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Any comments?

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Personal competences: comprehension in industrial pharmacy.

11. Personal competences: understanding of industrial pharmacy.

According to your experience how would you rank the competence for the need for understanding in the various areas below?

	Not important.	Quite important.	Very important.	Essential.	I cannot rank this competence
1. Current knowledge of design, synthesis, isolation, characterisation and biological evaluation of active substances.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Current knowledge of good manufacturing practice (GMP) and of good laboratory practice (GLP).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Current knowledge of European directives on qualified persons (QPs).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Current knowledge of drug registration, licensing and marketing.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Current knowledge of good clinical practice (GCP).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Any comments.

Patient care competences.

Patient care competences - patient consultation and assessment.

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12. Patient care competences - patient consultation and assessment.

According to your experience how would you rank the need for competence in the various areas below?

	Not important.	Quite important.	Very important.	Essential.	I cannot rank this competence
1. Ability to perform and interpret medical laboratory tests.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Ability to perform appropriate diagnostic or physiological tests to inform clinical decision making e.g. measurement of blood pressure.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Ability to recognise when referral to another member of the healthcare team is needed when a potential clinical problem is identified (pharmaceutical, medical, psychological or social).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Any comments?

Patient care competences - need for drug treatment.

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13. Patient care competences - need for drug treatment.

According to your experience how would you rank the need for competence in the various areas below?

	Not important.	Quite important.	Very important.	Essential.	I cannot rank this competence
1. Retrieval and interpretation of relevant information on the patient's clinical background.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Retrieval and interpretation of an accurate and comprehensive drug history if and when required.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Identification of non-adherence and implementation of appropriate patient intervention.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Ability to advise to physicians and - in some cases – prescribe medication.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Any comments?

Patient care competences - drug interactions.

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14. Patient care competences - drug interactions.

According to your experience how would you rank the need for competence in the various areas below?

	Not important.	Quite important.	Very important.	Essential.	I cannot rank this competence
1. Identification, understanding and prioritisation of drug-drug interactions at a molecular level (e.g. use of codeine with paracetamol).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Identification, understanding, and prioritisation of drug-patient interactions, including those that preclude or require the use of a specific drug (e.g. trastuzumab for treatment of breast cancer in women with HER2 overexpression).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Identification, understanding, and prioritisation of drug-disease interactions (e.g. NSAIDs in heart failure).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Any comments?

Patient care competences - provision of drug product.

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15. Patient care competences - provision of drug product.

According to your experience how would you rank the need for competence in the various areas below?

	Not important.	Quite important.	Very important.	Essential.	I cannot rank this competence
1. Familiarity with the bio-pharmaceutical, pharmacodynamic and pharmacokinetic activity of a substance in the body.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Supply of appropriate medicines taking into account dose, correct formulation, concentration, administration route and timing.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Critical evaluation of the prescription to ensure that it is clinically appropriate and legal.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Familiarity with the supply chain of medicines and the ability to ensure timely flow of drug products to the patient.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Ability to manufacture medicinal products that are not commercially available.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Any comments?

Patient care competences - patient education.

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16. Patient care competences - patient education.

According to your experience how would you rank the need for competence in the various areas below?

	Not important.	Quite important.	Very important.	Essential.	I cannot rank this competence
1. Promotion of public health in collaboration with other actors in the healthcare system.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Provision of appropriate lifestyle advice on diet, exercise, etc.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Provision of appropriate advice on resistance to antibiotics and similar public health issues.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Any comments?

Patient care competences - provision of information and service.

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17. Patient care competences - provision of information and service.

According to your experience how would you rank the need for competence in the various areas below?

	Not important.	Quite important.	Very important.	Essential.	I cannot rank this competence
1. Ability to use effective consultations to identify the patient's need for information.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Provision of accurate and appropriate information on prescription medicines.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Provision of informed support for patients in selection and use of non-prescription medicines for minor ailments (e.g. cough remedies...).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Any comments?

Patient care competences - monitoring of drug therapy.

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18. Patient care competences - monitoring of drug therapy.

According to your experience how would you rank the need for competence in the various areas below?

	Not important.	Quite important.	Very important.	Essential.	I cannot rank this competence
1. Identification and prioritisation of problems in the use and management of medicines in a timely manner and with sufficient efficacy to ensure patient safety.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Ability to monitor and report to all concerned in a timely manner, and in accordance with current regulatory guidelines on Good Pharmacovigilance Practices (GVPs), Adverse Drug Events and Reactions (ADEs and ADRs).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Undertaking of a critical evaluation of prescribed medicines to confirm that current clinical guidelines are appropriately applied.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Any comments?

Patient care competences - evaluation of outcomes.

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19. Patient care competences - evaluation of outcomes.

According to your experience how would you rank the need for competence in the various areas below?

	Not important.	Quite important.	Very important.	Essential.	I cannot rank this competence
1. Assessment of outcomes of patient care and follow-up interventions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Evaluation of cost effectiveness of treatment.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Any comments?