

**Main Approaches to Developing of
Common Sectoral Qualifications and Competences
Framework
in the Field of Research, Development
and Higher Education
in the Russian Federation**

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Peculiar Conditions of the Development of the Common Framework of Qualifications and Competences in the Area of Research, Development and Higher Education in the Russian Federation

- Absence of 'science' in the national qualification system until 2017. Now this professional activity field is called 'Education and Science'.
- Lack of conceptual and methodological base for the development of highly-qualified workforce training system:
 - Absence of a national qualifications framework
 - Lack of clarity in the application of high qualifications in professional standards
 - Lack of universal approach to describing work objectives
 - Lack of universal approach to correlating work objectives and qualification levels
 - Lack of understanding of how to present research and technological research in professional standards because the standards are based on work functions, not competences

Objectives of the Common Sectoral Framework of Qualifications and Competences in the Area of Research, Development and Higher Education in the Russian Federation

- to develop the conceptual basis for inclusion of all kinds of work connected with research, development and education in the National Qualifications System
- to create a unified levels framework of professional qualifications in the area of research and development, in line with the existing levels in the National Qualifications System
- to form a basis for horizontal mobility of workers in the area of research, development and higher education
- to provide possibilities of personal growth and career advancement, as well as lifelong learning
- to ensure continuity with the existing system of qualifications
- to systematize the existing legal basis regulating job requirements in the area
- to harmonize our system with the world systems of research career and teaching qualifications

Structure of the Common Sectoral Framework of Qualifications in the Area of Research, Development and Higher Education

- **List of types of professional activity** in the area of research, development and higher education
- **Correlation between objectives and levels** (sublevels) of professional qualifications
- **Qualifications framework**, description of levels (sublevels) of professional qualifications in the area of research, development and higher education by means of requirements to education level, academic degree, work experience, etc.
- **Requirements to qualifications** of those working in the area of research, development and higher education according to the levels (sublevels) of professional qualifications

Types and levels of professional activity

Types (aspects) of Professional Activity	Levels (sublevels) of Professional Qualification						
	5	6	7.1	7.2.	8.1.	8.2.	9
1. Research	-	+	+	+	+	+	+
2. Research and Technological Development	+	+	+	+	+	+	+
3. Innovative Research	-	+	+	+	+	+	+
4. Expert Analysis	-	-	-	-	+	+	+
5. Public Education	-	+	+	+	+	+	+
6. Teaching at Higher Education Level	-	-	+	+	+	+	+
Requirements to Education, Academic Degree and (or) the Work Experience According to the Levels (Sublevels) of Professional Qualifications	Secondary vocational education	Higher education – bachelor's degree or secondary vocational education with work experience	Higher education – 'specialist' diploma (after 5/6-year studies) / master's degree	Higher education – post graduate course with the qualification of "Researcher and Teacher at University Level" or 'specialist' diploma / master's degree with work experience <i>In the European Framework for Research Careers Level R1 (First Stage Researcher)</i>	Higher education of any level, except bachelor's degree, with the PhD or the equivalent degree <i>In the European Framework for Research Careers Level R2 (Recognized Researcher)</i>	Higher education of any level except bachelor's degree, with senior doctorate or PhD with work experience <i>In the European Framework for Research Careers Level R3 (Established Researcher)</i>	Higher education of any level except bachelor's degree, with senior doctorate and work experience <i>In the European Framework for Research Careers Level R4 (Leading Researcher)</i>

Objectives and Competences

Levels	6		7.1		7.2.	
Types of activity	Objectives	Competences	Objectives	Competences	Objectives	Competences
Research	Providing technical support and assistance in research projects and events	<ul style="list-style-type: none"> • Demonstrates subject knowledge in the field of work and / or study • Able to provide assistance in research projects using standard tools and techniques • Able to carry out specific tasks as part of organizing research community events 	Conducting research and organizing research community events under supervision	<ul style="list-style-type: none"> • Demonstrates subject knowledge in the field of work and /or study, understanding of associated areas in other disciplines • Able to apply knowledge and skills in own subject area • Able to fulfil research tasks set by senior researchers • Able to present the outcome of own research to research colleagues • Capable of managing research community events 	Conducting research and managing events independently and / or under supervision; obtaining and testing new results in own field of research	<ul style="list-style-type: none"> • Demonstrates systemic understanding of the field of research • Able to plan and conduct research, test research outcome and disseminate the results independently and /or under supervision • Able to evaluate own research results and possibilities of their practical application • Able to work in a research team on a research project • Capable of managing research community events
Expert Analysis	Processing information as part of expert analysis according to given parameters	Able to carry out limited tasks involving collecting and summarizing information as part of expert analysis in own research area	Comprehensive analysis of information subject to examination	Able to assess the reliability and relevance of information and present it to the target audience	Conducting expert analysis of research outcomes in own research area	<ul style="list-style-type: none"> • Able to monitor the subject under study in own research area • Able to carry out expert analysis of qualification papers and project parts in own research area and to present grounded expert opinion
Innovative Research	Providing technical support and assistance in innovative research projects, including planning and application stages	Able to carry out specific stages of research to produce data under supervision	Performing limited tasks in innovative research projects, including planning and application stages	Able to carry out specific stages of research to produce data making use of the available resources under supervision	Engaging in the production of innovative intellectual creations and their practical application	<ul style="list-style-type: none"> • Able to independently plan and conduct work in the production of intellectual creations and their practical application • Able to work in a research team on an innovative research project

Levels	6		7.1		7.2.	
	Objectives	Competences	Objectives	Competences	Objectives	Competences
Public Education	Presenting scientific ideas to general public in an appropriate and up-to-date manner	Able to present scientific ideas in basic areas of own research field taking into account legal, ethical and cultural norms	Presenting scientific ideas to general public in an appropriate and up-to-date manner	<ul style="list-style-type: none"> • Able to explain the outcome of research in mass media, including popular science magazines and social networking sites • Able to communicate scientific ideas for public education with different target audience, taking into account the level of education, as well as social and age group 	Presenting scientific ideas to general public in an appropriate and up-to-date manner, including outcome of own research	<ul style="list-style-type: none"> • Able to explain the outcome of research in mass media, including popular science magazines and social networking sites • Able to communicate scientific ideas for public education with different target audience, taking into account the level of education, as well as social and age group
Teaching at Higher Education Level	N/A	N/A	Teaching disciplines / modules in bachelor's / 'specialist' programs in own research area and / or additional professional courses	<ul style="list-style-type: none"> • Conduct training classes of seminar type under the supervision • Able to use modern educational technologies in teaching • Able to carry out specific tasks in developing teaching support materials under supervision • Able to provide support and guidance in student research 	Teaching disciplines in own research area and / or additional professional course	<ul style="list-style-type: none"> • Conduct seminar type classes on bachelor's / 'specialist' / master's and / or additional professional course • Able to conduct tutorials in bachelor's / 'specialist' / master's and / or additional professional programs • Able to develop teaching support materials in specific areas of disciplines and/or specific stages of practical training • Organize student research

Thank you!