

**Assessment tools for certification
in the discipline "Information technology in professional activity"
for students enrolled
in the 2023 educational program
33.05.01 Pharmacy,
specialty,
full-time education
for the 2025-2026 academic year**

1. Evaluation tools for conducting current certification in the discipline

The current certification includes the following types of tasks: testing, report, assessment of mastering a practical skill.

1.1. Examples of test tasks

1. Choose a way to protect computer information:

- a). Protection against unauthorized access
- b). Write protection
- c). Encryption
- d). Backup to external media

2. Choose a way to protect computer information:

- a). Protection from unauthorized access
- b). Write protection
- c). Encryption
- d). Backup to external media

1.2. Sample reports

1. The effect of oral hypoglycemic agents on cardiovascular risk in patients with diabetes mellitus and hypertension - clinical data.

2. Current trends in the search for new antithrombotic drugs.

1.3. An example of practical skills assessment

Estimation of inventories of a given nomenclature

Accounting for cash transactions

2. Evaluation tools for conducting intermediate certification in the discipline

The intermediate certification is carried out in the form of a credit.

The interim assessment is an interview.

2.1. List of interview questions

1. Information systems and the use of computer technology in professional activities. Basic concepts and definitions.

2. Classification of information systems.

3. Composition and quality characteristics of information systems.

4. Classification of personal computers.

5. Technical means of information technology.

6. List the main devices of the basic configuration of the personal computer and specify their purpose.

7. Definition of the operating system. Operating systems of the Windows family. The functions of the operating system.

8. The difference between operational and external storage devices. External memory devices.

9. Data input and output devices.

10. Information technology software.

11. Basic software.

12. Application software and specify their purpose.

13. Modern ways of organizing presentations.

14. Accounting accounting systems.

15. Features of accounting automation.

16. The history of the development of accounting systems.
17. The possibilities of computer accounting systems.
18. Classification of accounting software.
19. Russian accounting programs.
20. "1C: Accounting". Opportunities. Principles of operation in the system.
21. Computer reference legal systems.
22. The legal reference system "Consultant Plur".
23. The reference legal system "Garant".
24. The information legal system of the Codex series.
25. Integrated information system "Referent".
26. Integration of accounting programs and legal frameworks.
27. Specialized industry reference systems.
28. The global Internet network. Features for the user.
29. The modern structure of the Internet.
30. The main protocols of the Internet.
31. The Internet as a unified resource system.
32. Fundamentals of Web page design.
33. Fundamentals of information and computer security.
34. Information security and information protection. General problems and basic principles.
35. Information protection.
36. Protection of the hard drive (hard drive).
37. Security in the information environment.
38. Classification of protective equipment.
39. The software and technical level of protection.
40. Creating an emergency boot disk.
41. Data backup.
42. Organization of protection against computer viruses.
43. Threats to information security of information processing systems and methods of combating them.
44. Software and technical threats to PC information security.
45. Means of combating threats. Access control.
46. Logging, auditing and other areas of security.
47. Information protection in operating systems and applications.
48. Ensuring information security in OQ.
49. Ensuring security in MS Word and Excel applications.
50. Organization of safe work with computer equipment.
51. Computer and vision.
52. Prevention of occupational diseases when working with a computer.
53. Rational organization of the workplace.
54. The concept of "automated workplace"/, types of automated workplace in pharmacy.
55. Software required to work on the global network.
56. Browser definition. List its functions.
57. The concept of a server, a website, hypertext, hypertext links.
58. List the main directions in telemedicine (types of telemedicine services).
59. Reference books of medicines on the Internet.
60. Specialized information retrieval bibliographic systems.
61. The structure of the state register of medicines.
62. Pharmaceutical Information Fund.
63. Unified search and information systems of State Control bodies.
64. Types of sources of pharmaceutical information. Advantages and disadvantages of various sources.
65. Application software.

66. The concept and types of pharmaceutical information.
67. The main characteristics of pharmaceutical and medical information.
68. Consumers and sources of pharmaceutical information.
69. Names, classification, coding of medicines.
70. Presentation as a means of advertising medicines.
71. The content of information in advertising products for professionals and consumers.
Restrictions in advertising products.
72. Places of placement and methods of advertising distribution for specialists/consumers.
73. Which data formats are appropriate for storing and processing pharmaceutical information.
74. Problems and difficulties in obtaining objective pharmaceutical information.
75. Information support of a pharmaceutical enterprise.
76. Presentation in pharmaceutical activity.

The full fund of assessment tools for the discipline/practice is available in the VolgSMU Electronic Information and Educational System at the link(s):
<https://elearning.volgmed.ru/course/view.php?id=12252>

Considered at the meeting of the Department of Organization of Pharmaceutical Business, Pharmaceutical Technology and Biotechnology «29» May 2025, Protocol №. 12

Head of the Department,
Doctor of Pharmacy

A handwritten signature in blue ink, appearing to be 'V. S. Sirotenko', written in a cursive style.

V. S. Sirotenko