



KNOWLEDGE

Important questions
about the knowledge required
for the occupation



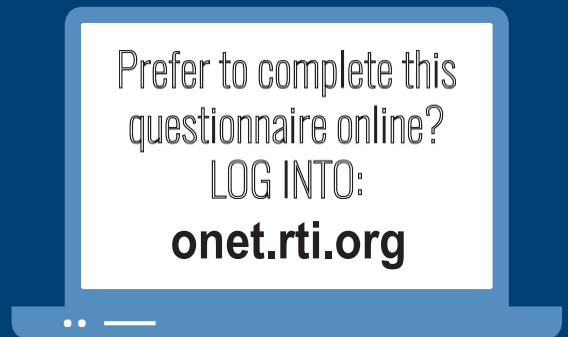
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Getting Started

You will be asked questions about work-related **knowledges**, which are sets of facts and principles needed to address problems and issues that are part of a job.

INSTRUCTIONS

- Read the definition of the knowledge provided in the dark blue box above the question.
- Then, rate how important the knowledge is to the performance of the occupation.

EXAMPLE

Mathematics knowledge refers to arithmetic, algebra, geometry, calculus, statistics, and their applications.

How important is **mathematics** knowledge to the performance of the occupation?

- Not important → **Go to next question**
- Somewhat important
- Important
- Very important
- Extremely important

If you select at least somewhat important, you will be asked to rate the **level** of the knowledge.

- The **level** of knowledge is the amount of expertise in the knowledge needed to perform the occupation.
- To help you understand the different levels, job activities are provided that require either a **low, moderate, or high** level of expertise in the knowledge. These examples are from a variety of jobs. They may or may not be directly related to the occupation.
- “1” on the scale means that a low level of expertise in the knowledge is needed to perform the occupation.
- “7” on the scale means that a high level of expertise in the knowledge is needed to perform the occupation.

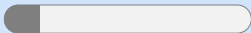
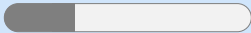
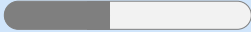
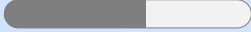
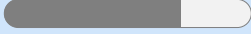
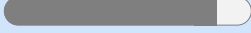

If at least somewhat important, what level of expertise in **mathematics** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Add two numbers

Moderate: Analyze data to determine areas with the highest sales

High: Derive a complex mathematical equation

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

The Occupation

Please answer the following questions about work-related **knowledges** as they relate to the occupation. For reference, the occupation is summarized below.

Nannies

Care for children in private households and provide support and expertise to parents in satisfying children's physical, emotional, intellectual, and social needs. Duties may include meal planning and preparation, laundry and clothing care, organization of play activities and outings, discipline, intellectual stimulation, language activities, and transportation.

Mark your response by placing a check mark, an "X," or completely filling in the circle:



Administration and management knowledge refers to business and management principles involved in strategic planning, resource allocation, human resource modeling, leadership technique, production methods, and coordination of people and resources.

1. How important is **administration and management** knowledge to performance of the occupation?

- Not important → **Go to 2**
- Somewhat important
- Important
- Very important
- Extremely important

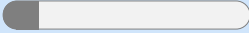
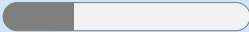
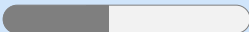


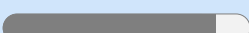

→1b. If at least somewhat important, what level of expertise in **administration and management** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Approve a reimbursement request

Moderate: Monitor progress of a project to ensure timely completion

High: Manage a multimillion-dollar company

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Administrative knowledge refers to administrative and office procedures and systems such as word processing, managing files and records, stenography and transcription, designing forms, and workplace terminology.

2. How important is **administrative** knowledge to the performance of the occupation?

- Not important → **Go to 3**
- Somewhat important
- Important
- Very important
- Extremely important

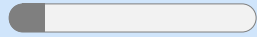
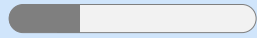

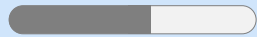
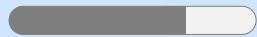

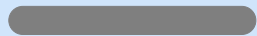
→2b. If at least somewhat important, what level of expertise in **administrative** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Direct phone calls to the appropriate staff member

Moderate: Type 30 words per minute

High: Organize a digital storage system for company forms

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Economics and accounting knowledge refers to economic and accounting principles and practices, the financial markets, banking, and the analysis and reporting of financial data.

3. How important is **economics and accounting** knowledge to the performance the occupation?

- Not important → **Go to 4**
- Somewhat important
- Important
- Very important
- Extremely important

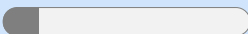
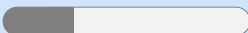
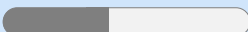
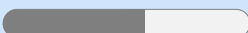
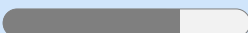
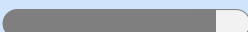

→3b. If at least somewhat important, what level of expertise in **economics and accounting** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Answer billing questions from credit card customers

Moderate: Develop financial investment programs for individual clients

High: Keep a major corporation's financial records

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Sales and marketing knowledge refers to principles and methods for showing, promoting, and selling products or services, including marketing strategy and tactics, product demonstration, sales techniques, and sales control systems.

4. How important is **sales and marketing** knowledge to the performance of the occupation?

- Not important → **Go to 5**
- Somewhat important
- Important
- Very important
- Extremely important

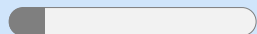
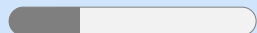
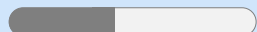
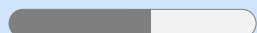
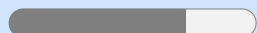
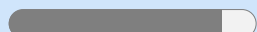

→4b. If at least somewhat important, what level of expertise in **sales and marketing** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Sell cakes at a bake sale

Moderate: Introduce clients to a new line of products

High: Develop a marketing plan for a new nationwide high-speed internet system

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Customer and personal service knowledge refers to principles and processes for providing customer and personal services, including customer needs assessment, meeting quality standards for services, and evaluation of customer satisfaction.

5. How important is **customer and personal service knowledge** to the performance the occupation?

- Not important → **Go to 6**
- Somewhat important
- Important
- Very important
- Extremely important

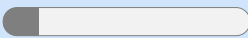
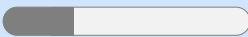
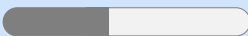
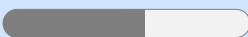
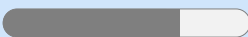

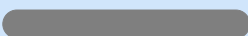
→5b. If at least somewhat important, what level of expertise in **customer and personal service knowledge** is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Process a customer's dry-cleaning drop off

Moderate: Be responsible for 10 children at a daycare

High: Respond to a citizen's request for assistance after a major disaster

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Personnel and human resources knowledge refers to principles and procedures for personnel recruitment, selection, training, compensation and benefits, labor relations and negotiation, and personnel information systems.

6. How important is **personnel and human resources knowledge** to the performance of the occupation?

- Not important → **Go to 7**
- Somewhat important
- Important
- Very important
- Extremely important

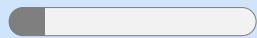
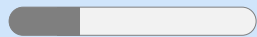

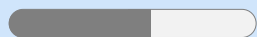
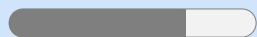

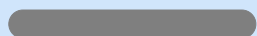
→6b. If at least somewhat important, what level of expertise in **personnel and human resources knowledge** is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Fill out a medical claim form

Moderate: Interview applicants for an administrative position

High: Design a new personnel selection and promotion system for the Army

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Production and processing knowledge refers to raw materials, production processes, quality control, costs, and other techniques for maximizing the effective manufacture and distribution of goods.

7. How important is **production and processing** knowledge to the performance the occupation?

- Not important → **Go to 8**
- Somewhat important
- Important
- Very important
- Extremely important

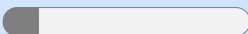
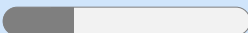
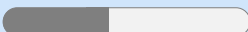
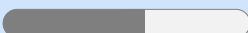
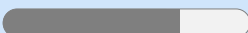
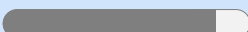

→7b. If at least somewhat important, what level of expertise in **production and processing** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Put a computer back into its packing materials

Moderate: Supervise an appliance assembly line

High: Manage an international shipping company distribution center

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Food production knowledge refers to techniques and equipment for planting, growing, and harvesting food products (both plant and animal) for consumption, including storage/handling techniques.

8. How important is **food production** knowledge to the performance of the occupation?

- Not important → **Go to 9**
- Somewhat important
- Important
- Very important
- Extremely important

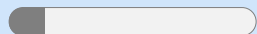
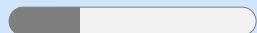
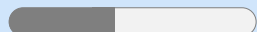
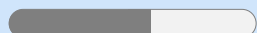
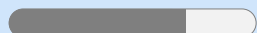
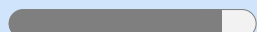

→8b. If at least somewhat important, what level of expertise in **food production** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Grow herbs in the kitchen

Moderate: Operate a commercial fishing boat

High: Run a large production farm

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Computers and electronics knowledge refers to circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming.

9. How important is computers and electronics knowledge to the performance the occupation?

- Not important → **Go to 10**
- Somewhat important
- Important
- Very important
- Extremely important

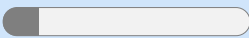
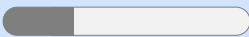
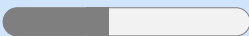
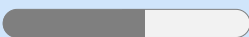
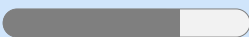

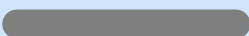
→9b. If at least somewhat important, what level of expertise in computers and electronics knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Operate a media player to watch a training video

Moderate: Use a computer to format a document

High: Create a program to scan a computer for viruses

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Engineering and technology knowledge refers to the practical application of engineering science and technology, including applying principles, techniques, procedures, and equipment to the design and production of various goods and services.

10. How important is engineering and technology knowledge to the performance of the occupation?

- Not important → **Go to 11**
- Somewhat important
- Important
- Very important
- Extremely important

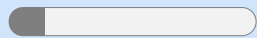
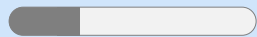

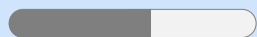
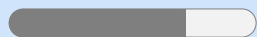

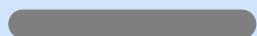
→10b. If at least somewhat important, what level of expertise in engineering and technology knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Install a door lock

Moderate: Design a custom office chair

High: Plan for the impact of weather in designing a bridge

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Design knowledge refers to design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models.

11. How important is **design** knowledge to the performance the occupation?

- Not important → **Go to 12**
- Somewhat important
- Important
- Very important
- Extremely important

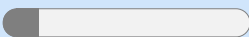
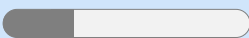
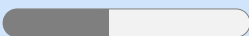
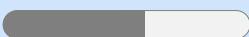

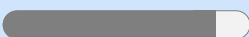

→11b. If at least somewhat important, what level of expertise in **design** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Draw a straight line 4-3/16 inches long

Moderate: Design plans for remodeling a kitchen

High: Develop detailed plans for a high-rise office building

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Building and construction knowledge refers to materials, methods, and the tools involved in the construction or repair of houses, buildings, or other structures such as highways and roads.

12. How important is **building and construction** knowledge to the performance of the occupation?

- Not important → **Go to 13**
- Somewhat important
- Important
- Very important
- Extremely important

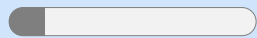
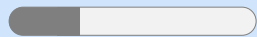

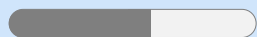
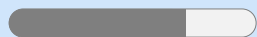

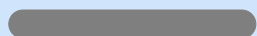
→12b. If at least somewhat important, what level of expertise in **building and construction** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Choose the proper type of wood for adding a deck onto a house

Moderate: Fix a plumbing leak in the ceiling

High: Build a high-rise office tower

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Mechanical knowledge refers to machines and tools, including their designs, uses, repair, and maintenance.

13. How important is **mechanical** knowledge to the performance the occupation?

- Not important → **Go to 14**
- Somewhat important
- Important
- Very important
- Extremely important

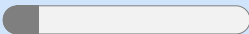
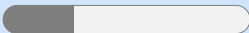
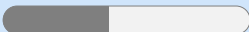
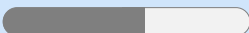
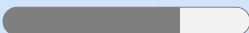
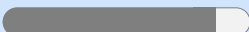
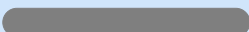
→13b. If at least somewhat important, what level of expertise in **mechanical** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Replace the filters in a furnace

Moderate: Replace a valve on a steam pipe

High: Overhaul an airplane jet engine

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Mathematics knowledge refers to arithmetic, algebra, geometry, calculus, statistics, and their applications.

14. How important is **mathematics** knowledge to the performance of the occupation?

- Not important → **Go to 15**
- Somewhat important
- Important
- Very important
- Extremely important

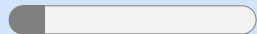
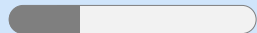
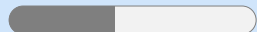
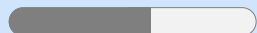
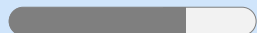
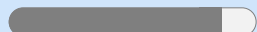
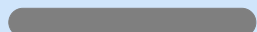
→14b. If at least somewhat important, what level of expertise in **mathematics** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Add two numbers

Moderate: Analyze data to determine areas with the highest sales

High: Derive a complex mathematical equation

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Physics knowledge refers to knowledge and prediction of physical principles, laws, their interrelationships, and applications to understanding fluid, material, and atmospheric dynamics, and mechanical, electrical, atomic and sub-atomic structures and processes.

15. How important is **physics** knowledge to the performance the occupation?

- Not important → **Go to 16**
- Somewhat important
- Important
- Very important
- Extremely important

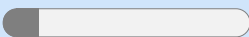
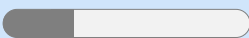
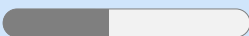
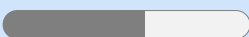

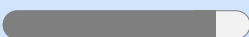

→15b. If at least somewhat important, what level of expertise in **physics** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Use a crowbar to pry open a box

Moderate: Calculate the speed of a falling object

High: Design a cleaner burning gasoline engine

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Chemistry knowledge refers to the chemical composition, structure, and properties of substances and of the chemical processes and transformations that they undergo, including uses of chemicals and their interactions, danger signs, production techniques, and disposal methods.

16. How important is **chemistry** knowledge to the performance of the occupation?

- Not important → **Go to 17**
- Somewhat important
- Important
- Very important
- Extremely important

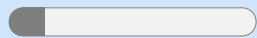
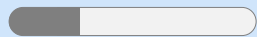
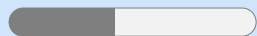

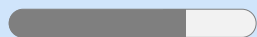
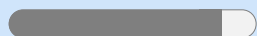
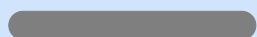
→16b. If at least somewhat important, what level of expertise in **chemistry** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Use a common household bug spray

Moderate: Use the proper concentration of chlorine to purify a water source

High: Develop a safe commercial cleaner

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Biology knowledge refers to plant and animal organisms and their tissues, cells, functions, interdependencies, and interactions with each other and the environment.

17. How important is **biology** knowledge to the performance the occupation?

- Not important → **Go to 18**
- Somewhat important
- Important
- Very important
- Extremely important

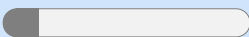
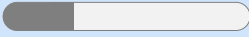
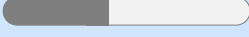
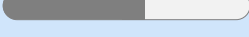
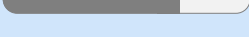
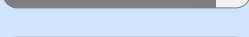
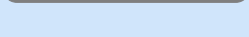
→17b. If at least somewhat important, what level of expertise in **biology** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Feed domestic animals

Moderate: Investigate the effects of pollution on marine plants and animals

High: Isolate and identify a new virus

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Psychology knowledge refers to human behavior and performance; individual differences in ability, personality, and interests; learning and motivation; psychological research methods; and the assessment and treatment of behavioral and affective disorders.

18. How important is **psychology** knowledge to the performance of the occupation?

- Not important → **Go to 19**
- Somewhat important
- Important
- Very important
- Extremely important

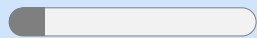
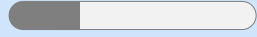




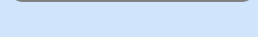
→18b. If at least somewhat important, what level of expertise in **psychology** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Monitor several children on a playground

Moderate: Understand the impact of alcohol on human responses

High: Treat a person with a severe mental illness

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Sociology and anthropology knowledge refers to group behavior and dynamics, societal trends and influences, human migrations, ethnicity, cultures, and their history and origins.

19. How important is **sociology and anthropology** knowledge to the performance of the occupation?

- Not important → **Go to 20**
- Somewhat important
- Important
- Very important
- Extremely important

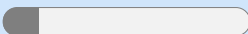
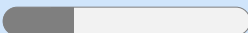
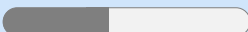
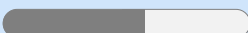
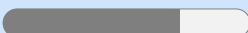
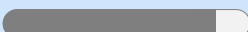

→19b. If at least somewhat important, what level of expertise in **sociology and anthropology** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Identify two cultures in a story as being different

Moderate: Write an article about cultural differences

High: Create a new theory about the development of civilizations

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Geography knowledge refers to principles and methods for describing the features of land, sea, and air masses, including their physical characteristics, locations, interrelationships, and distribution of plant, animal, and human life.

20. How important is **geography** knowledge to the performance of the occupation?

- Not important → **Go to 21**
- Somewhat important
- Important
- Very important
- Extremely important

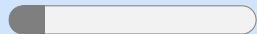
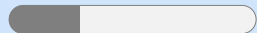
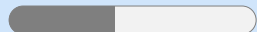
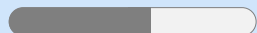
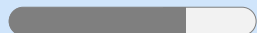
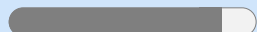
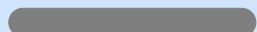
→20b. If at least somewhat important, what level of expertise in **geography** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Know the capital of the United States

Moderate: Find a specific country on a world map

High: Develop a map of the world showing mountains, deserts, and rivers

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Medicine and dentistry knowledge refers to the information and techniques needed to diagnose and treat human injuries, diseases, and deformities, including symptoms, treatment alternatives, drug properties and interactions, and preventive health-care measures.

21. How important is medicine and dentistry knowledge to the performance the occupation?

- Not important → **Go to 22**
- Somewhat important
- Important
- Very important
- Extremely important

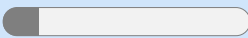
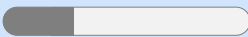
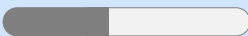
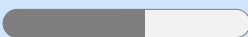
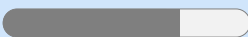

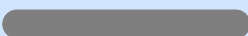
→21b. If at least somewhat important, what level of expertise in medicine and dentistry knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Use a band-aid

Moderate: Fill a tooth cavity

High: Perform open heart surgery

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Therapy and counseling knowledge refers to principles, methods, and procedures for diagnosis, treatment, and rehabilitation of physical and mental dysfunctions, and for career counseling and guidance.

22. How important is therapy and counseling knowledge to the performance of the occupation?

- Not important → **Go to 23**
- Somewhat important
- Important
- Very important
- Extremely important

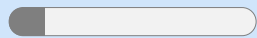
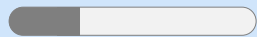

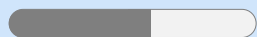
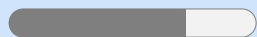

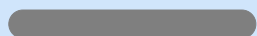
→22b. If at least somewhat important, what level of expertise in therapy and counseling knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Put ice on a sprained ankle

Moderate: Provide job counseling to the unemployed

High: Counsel an abused child

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Education and training knowledge refers to principles and methods for curriculum and training design, teaching and instruction for individuals and groups, and the measurement of training effects.

23. How important is **education and training** knowledge to the performance the occupation?

- Not important → **Go to 24**
- Somewhat important
- Important
- Very important
- Extremely important

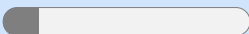
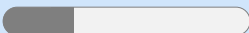
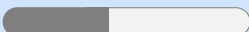
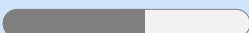
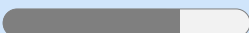
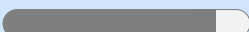

→23b. If at least somewhat important, what level of expertise in **education and training** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Show someone how to bowl

Moderate: Lead a quality improvement seminar

High: Design a training program for new employees

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

English language knowledge refers to the structure and content of the English language including the meaning and spelling of words, rules and composition, and grammar.

24. How important is **English language** knowledge to the performance of the occupation?

- Not important → **Go to 25**
- Somewhat important
- Important
- Very important
- Extremely important

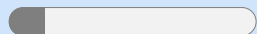
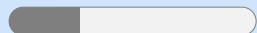
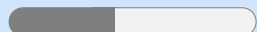
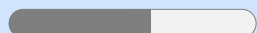
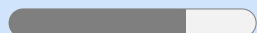
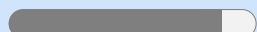

→24b. If at least somewhat important, what level of expertise in **English language** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Write a thank you note

Moderate: Edit an article for a news website

High: Teach a college English class

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Foreign language knowledge refers to the structure and content of a foreign (non-English) language including the meaning and spelling of words, rules of composition and grammar, and pronunciation.

25. How important is **foreign language** knowledge to the performance the occupation?

- Not important → **Go to 26**
- Somewhat important
- Important
- Very important
- Extremely important

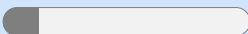
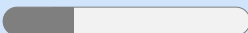
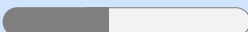
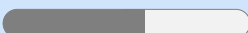
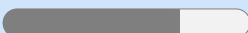
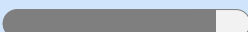

→25b. If at least somewhat important, what level of expertise in **foreign language** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Say “please” and “thank you” in a foreign language

Moderate: Ask for directions in a foreign city

High: Write an English language review of a book written in a foreign language

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Fine arts knowledge refers to the theory and techniques required to compose, produce, and perform works of music, dance, visual arts, drama, and sculpture.

26. How important is **fine arts** knowledge to the performance of the occupation?

- Not important → **Go to 27**
- Somewhat important
- Important
- Very important
- Extremely important

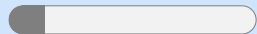
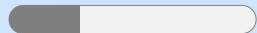
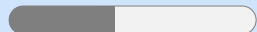
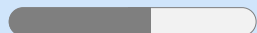
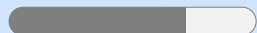
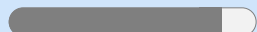
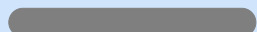
→26b. If at least somewhat important, what level of expertise in **fine arts** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Attend a popular music concert

Moderate: Play a minor part in a local theater play

High: Design an exhibit for a major art show

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

History and archaeology knowledge refers to historical events and their causes, indicators, and effects on civilizations and cultures.

27. How important is **history and archaeology** knowledge to the performance the occupation?

- Not important → **Go to 28**
- Somewhat important
- Important
- Very important
- Extremely important

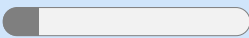
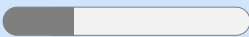
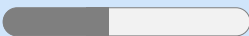
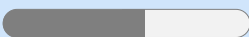
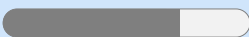

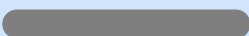
→27b. If at least somewhat important, what level of expertise in **history and archaeology** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Take a class in U.S. history

Moderate: Teach local history to school children

High: Determine the age of bones for placing them in fossil history

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Philosophy and theology knowledge refers to different philosophical systems and religions, including their basic principles, values, ethics, ways of thinking, customs, practices, and impact on human culture.

28. How important is **philosophy and theology** knowledge to the performance of the occupation?

- Not important → **Go to 29**
- Somewhat important
- Important
- Very important
- Extremely important

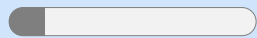
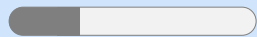

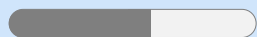
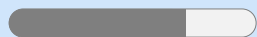

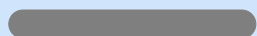
→28b. If at least somewhat important, what level of expertise in **philosophy and theology** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Watch a TV show on family values

Moderate: Understand another culture's religious practices

High: Compare the teachings of major philosophers

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Public safety and security knowledge refers to relevant equipment, policies, procedures, and strategies to promote effective local, state, or national security operations for the protection of people, data, property, and institutions.

29. How important is **public safety and security** knowledge to the performance the occupation?

- Not important → **Go to 30**
- Somewhat important
- Important
- Very important
- Extremely important

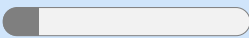
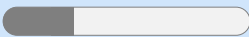
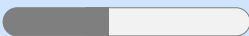
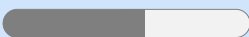
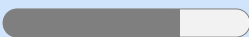

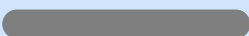
→29b. If at least somewhat important, what level of expertise in **public safety and security** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Use a seatbelt

Moderate: Inspect a building site for safety violations

High: Command a military operation

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Law and government knowledge refers to laws, legal codes, court procedures, precedents, government regulations, executive orders, agency rules, and the democratic political process.

30. How important is **law and government** knowledge to the performance of the occupation?

- Not important → **Go to 31**
- Somewhat important
- Important
- Very important
- Extremely important

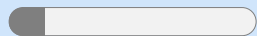
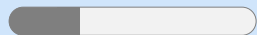
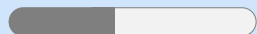
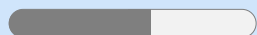
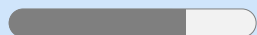
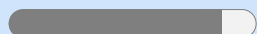
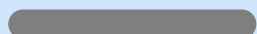
→30b. If at least somewhat important, what level of expertise in **law and government** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Describe the length of a U.S. presidential term

Moderate: Prepare documents and title papers for the purchase of a new house

High: Serve as a judge in a federal court

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Telecommunications knowledge refers to transmission, broadcasting, switching, control, and operation of telecommunications systems.

31. How important is **telecommunications** knowledge to the performance the occupation?

- Not important → **Go to 32**
- Somewhat important
- Important
- Very important
- Extremely important

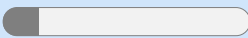
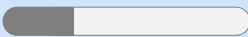
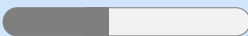
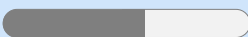
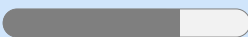

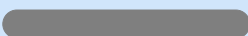
→31b. If at least somewhat important, what level of expertise in **telecommunications** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Send an e-mail

Moderate: Install a wireless internet router

High: Develop a new worldwide telecommunications network

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Communications and media knowledge refers to media production, communication, and dissemination techniques and methods, including alternative ways to inform and entertain via written, oral, and visual media.

32. How important is **communications and media** knowledge to the performance of the occupation?

- Not important → **Go to 33**
- Somewhat important
- Important
- Very important
- Extremely important

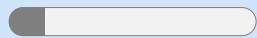
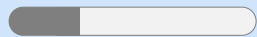

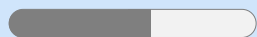
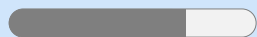

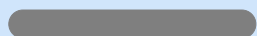
→32b. If at least somewhat important, what level of expertise in **communications and media** knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Write a thank you note

Moderate: Host a music radio show

High: Write a novel

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

Education and Training

These next questions ask about the education and experience requirements for the occupation.

34. If someone were being hired to perform the occupation, what level of education would be required?

Note that this does not mean the level of education that you personally have achieved.

- Less than a High School Diploma
- High School Diploma or the equivalent (such as a GED)
- Post-Secondary Certificate
- Some College Courses
- Associate's Degree or other 2-year degree
- Bachelor's Degree
- Post-Baccalaureate Certificate
- Master's Degree
- Post-Master's Certificate
- Doctor's Degree – Professional Practice (such as a J.D. for Law or an M.D. for Medicine)
- Doctor's Degree – Research/Scholarship (such as a Ph.D.)
- Post-Doctoral Training

Transportation knowledge refers to principles and methods for moving people or goods by air, rail, sea, or road, including the relative costs and benefits.

33. How important is transportation knowledge to the performance the occupation?

- Not important → **Go to 34**
- Somewhat important
- Important
- Very important
- Extremely important

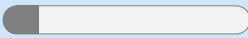
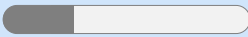
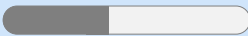
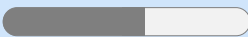
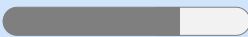
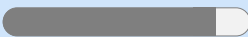
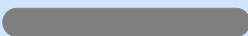
→33b. If at least somewhat important, what level of expertise in transportation knowledge is needed to perform the occupation?

Examples of activities from a variety of jobs:

Low: Ride a train to work

Moderate: Drive a semi-truck through a busy city

High: Control air traffic at a busy airport

- 1 Low 
- 2 
- 3 
- 4 Moderate 
- 5 
- 6 
- 7 High 

35. **If someone were being hired to perform the occupation, how much related work experience would be required?** *That is, having other jobs that prepare the worker for the job.*
- None
 - Up to and including 1 month
 - Over 1 month, up to and including 3 months
 - Over 3 months, up to and including 6 months
 - Over 6 months, up to and including 1 year
 - Over 1 year, up to and including 2 years
 - Over 2 years, up to and including 4 years
 - Over 4 years, up to and including 6 years
 - Over 6 years, up to and including 8 years
 - Over 8 years, up to and including 10 years
 - Over 10 years
36. **If someone were being hired to perform the occupation, how much on-site or in-plant training would be required?** *That is, organized classroom study provided by the employer.*
- None
 - Up to and including 1 month
 - Over 1 month, up to and including 3 months
 - Over 3 months, up to and including 6 months
 - Over 6 months, up to and including 1 year
 - Over 1 year, up to and including 2 years
 - Over 2 years, up to and including 4 years
 - Over 4 years, up to and including 10 years
 - Over 10 years
37. **If someone were being hired to perform the occupation, how much on-the-job training would be required?** *That is, serving as a learner or trainee on the job under instruction of a more experienced worker.*
- None or short demonstration
 - Anything beyond short demonstration, up to and including 1 month
 - Over 1 month, up to and including 3 months
 - Over 3 months, up to and including 6 months
 - Over 6 months, up to and including 1 year
 - Over 1 year, up to and including 2 years
 - Over 2 years, up to and including 4 years
 - Over 4 years, up to and including 10 years
 - Over 10 years

38. If someone were being hired to perform the occupation, how important would it be to have completed each of the following?

	Not important	Somewhat important	Important	Very important	Extremely important
a. Job-related professional certification	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Job-related apprenticeship	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Work Styles

This section asks about how different **work styles** relate to the occupation. A **work style** is a personal characteristic that can affect how well someone does a job. Answer each question as if you were performing work that is typical of the occupation.

39. How important are each of the following work styles to the performance of the occupation?

	Not important	Somewhat important	Important	Very important	Extremely important
a. Achievement/Effort— <i>Establishing and maintaining personally challenging achievement goals and exerting effort toward mastering tasks</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Persistence— <i>Persistence in the face of obstacles</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Initiative— <i>A willingness to take on responsibilities and challenges</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Leadership— <i>A willingness to lead, take charge, and offer opinions and direction</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Cooperation— <i>Being pleasant with others and displaying a good-natured, cooperative attitude</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Concern for Others— <i>Being sensitive to others' needs and feelings, and being understanding and helpful to others</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

40. How important are each of the following work styles to the performance of the occupation?

	Not important	Somewhat important	Important	Very important	Extremely important
a. Social Orientation— <i>Preferring to work with others rather than alone, and being personally connected with others</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Self-Control— <i>Maintaining composure, keeping emotions in check, controlling anger, and avoiding aggressive behavior, even in very difficult situations</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Stress Tolerance— <i>Accepting criticism and dealing calmly and effectively with high-stress situations</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Adaptability/Flexibility— <i>Being open to change (positive or negative) and to considerable variety in the workplace</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Dependability— <i>Being reliable, responsible, and dependable, and fulfilling obligations</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

41. How important are each of the following work styles to the performance of the occupation?

	Not important	Somewhat important	Important	Very important	Extremely important
a. Attention to Detail— <i>Being careful about details and thorough in completing tasks</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Integrity— <i>Being honest and ethical</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Independence— <i>Developing one's own ways of doing things, guiding oneself with little or no supervision, and depending on oneself to get things done</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Innovation— <i>Creativity and alternative thinking to develop new ideas for and answers to work-related problems</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Analytical Thinking— <i>Analyzing information and using logic to address work-related issues and problems</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Thank you for answering questions about knowledge areas. We appreciate the time and effort you have taken to answer these questions.

If you have any additional comments, please include them in the space below.

A large, empty rectangular box with rounded corners, intended for providing additional comments. The box is white and is surrounded by a light blue border.



Please return your completed questionnaire in
the enclosed envelope to:

RTI Research Operations Center 5265 Capital Blvd
Raleigh, NC 27616-2925

Prefer to complete this
questionnaire online?
LOG INTO:
onet.rti.org