

OSHA Ergonomics Practice Exam (Sample)

Study Guide



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SAMPLE

Questions

- 1. In what body position is static posture commonly assessed?**
 - A. While in motion**
 - B. While sitting, standing, or reclining**
 - C. While exercising**
 - D. While engaging in high-intensity activities**
- 2. Which setting can Ergonomics improve?**
 - A. Only industrial workplaces**
 - B. Only outdoor environments**
 - C. Any work setting**
 - D. Only corporate offices**
- 3. When lifting, how should your back be positioned?**
 - A. Curved forward for better reach**
 - B. Vertical as much as possible**
 - C. Inclined backward for stability**
 - D. Twisted to the side for visibility**
- 4. What can happen to tissues and muscles if RSI is not adequately addressed?**
 - A. They can become stronger**
 - B. They can be underused**
 - C. They can be overused**
 - D. They can remain unaffected**
- 5. Which symptom could suggest a serious ergonomic issue for an office worker?**
 - A. Occasional headaches**
 - B. Persistent numbness or tingling**
 - C. Temporary discomfort**
 - D. Tiredness after work**

- 6. What factor increases the likelihood of developing discomfort from static posture?**
- A. Using an ergonomic chair**
 - B. Long duration of maintaining the same position**
 - C. Short and frequent work sessions**
 - D. Varied task activities throughout the day**
- 7. What does having a neutral posture involve?**
- A. Keeping your body vertically aligned**
 - B. Bending your knees slightly**
 - C. Sitting with your legs crossed**
 - D. Leaning forward in your chair**
- 8. When does compression or contact stress typically occur?**
- A. During periods of extreme relaxation**
 - B. When subjected to minimal pressure**
 - C. When under constant pressure from hard objects**
 - D. During physical activity**
- 9. What is a potential symptom of muscle strain due to repetitive tasks?**
- A. Numbness in the feet**
 - B. Loss of strength in hands**
 - C. Joint pain in knees**
 - D. Headaches**
- 10. What is a significant health concern associated with poor ergonomics?**
- A. Cardiovascular diseases**
 - B. Respiratory issues**
 - C. Musculoskeletal disorders**
 - D. Skin irritations**

Answers

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1. B
2. C
3. B
4. C
5. B
6. B
7. A
8. C
9. B
10. C

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Explanations

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1. In what body position is static posture commonly assessed?

- A. While in motion**
- B. While sitting, standing, or reclining**
- C. While exercising**
- D. While engaging in high-intensity activities**

Static posture is commonly assessed while sitting, standing, or reclining because these positions allow for observation of how the body aligns itself without the influence of movement or dynamic activity. Static postures provide a clearer understanding of how an individual holds their body under these conditions, highlighting potential musculoskeletal strain or improper alignment that could lead to discomfort or injury over time. Assessing static posture is crucial for identifying ergonomic risks that arise from prolonged periods in these positions. For example, ergonomic evaluations often focus on how a person sits at a desk, stands at a workstation, or reclines while driving, as these postures can significantly impact back health, neck strain, and overall comfort. Movement, exercise, or high-intensity activities introduce variables that complicate the assessment of posture. These are characterized by changing body dynamics, making it difficult to evaluate static alignment since the body is in a constant state of flux and adjustment. Therefore, focusing on static postures provides valuable insights for ergonomic analysis and interventions.

2. Which setting can Ergonomics improve?

- A. Only industrial workplaces**
- B. Only outdoor environments**
- C. Any work setting**
- D. Only corporate offices**

Ergonomics can indeed improve any work setting, as its principles are universally applicable across various environments and job roles. The core goal of ergonomics is to enhance efficiency, comfort, and safety by designing workspaces, tools, and tasks to fit the needs of the worker, regardless of where they are based. In industrial workplaces, ergonomics helps in reducing the risk of injury related to repetitive motions or heavy lifting. In outdoor environments, it contributes to minimizing exposure to environmental hazards while promoting proper techniques for movement and tool use. In corporate offices, ergonomics focuses on workstation design, seating, and the arrangement of technology to prevent discomfort and repetitive strain injuries. By adopting ergonomic practices in all types of work settings, organizations can improve employee well-being, enhance productivity, and ultimately create a more effective work environment. This holistic approach recognizes that every workplace has its unique challenges and opportunities for improvement through ergonomic interventions.

3. When lifting, how should your back be positioned?

- A. Curved forward for better reach**
- B. Vertical as much as possible**
- C. Inclined backward for stability**
- D. Twisted to the side for visibility**

The recommended back position while lifting is to keep it as vertical as possible. This alignment helps to maintain the natural curvature of the spine and minimizes strain on the back muscles and ligaments. Keeping the back straight allows for a more efficient lifting technique by using the strength of the legs and hips rather than overexerting the back muscles. Adopting a vertical posture reduces the risk of injury, particularly when lifted loads are heavy or awkwardly shaped. A straight back helps to distribute the load evenly through the spine and pelvis, providing better support and balance during the lift. This approach is crucial in preventing conditions associated with poor lifting techniques, such as muscle strains and long-term spinal issues. Maintaining a vertical position is aligned with ergonomic principles, which emphasize the importance of body mechanics in preventing workplace injuries, especially in scenarios involving repetitive or heavy lifting tasks.

4. What can happen to tissues and muscles if RSI is not adequately addressed?

- A. They can become stronger**
- B. They can be underused**
- C. They can be overused**
- D. They can remain unaffected**

When repetitive strain injury (RSI) is not adequately addressed, tissues and muscles are likely to be overused. Overuse happens when muscles and tendons are subjected to repetitive motions or prolonged strain without sufficient rest and recovery time. This can lead to micro-tears in muscle fibers and tendons, inflammation, and chronic pain, ultimately resulting in damage that may require medical intervention. Addressing RSI early can involve employing ergonomic interventions, modifying work practices, or taking regular breaks to allow tissues to recover. Ignoring the symptoms and continuing the same patterns can exacerbate the condition, leading to more severe issues such as tendonitis, carpal tunnel syndrome, or other musculoskeletal disorders. Therefore, understanding the principle of overuse is critical for prevention and effective management of RSI in work environments.

5. Which symptom could suggest a serious ergonomic issue for an office worker?

- A. Occasional headaches**
- B. Persistent numbness or tingling**
- C. Temporary discomfort**
- D. Tiredness after work**

Persistent numbness or tingling in an office worker could indicate a serious ergonomic issue that needs immediate attention. These symptoms often suggest nerve compression or irritation, potentially linked to improper workstation setup, repetitive motions, or poor posture. Such conditions can lead to more severe health problems if not addressed promptly, including carpal tunnel syndrome or other musculoskeletal disorders. In contrast, occasional headaches, temporary discomfort, and tiredness after work may be less specific and are often attributed to general work fatigue or environmental factors rather than serious ergonomic issues. While they should not be ignored, they are not direct indicators of underlying problems in the same way that persistent numbness or tingling is.

6. What factor increases the likelihood of developing discomfort from static posture?

- A. Using an ergonomic chair**
- B. Long duration of maintaining the same position**
- C. Short and frequent work sessions**
- D. Varied task activities throughout the day**

Maintaining the same position for an extended period significantly increases the likelihood of developing discomfort because static postures can lead to muscle fatigue, stiffness, and even strain. When muscles are held in a fixed position, blood flow is often restricted, which limits the oxygen and nutrient supply that muscles need to function effectively. Over time, this can result in discomfort, soreness, and even musculoskeletal disorders. In contrast, ergonomic chairs and varied tasks can help promote better posture and encourage movement, potentially reducing discomfort. Short, frequent work sessions may also help to alleviate the issues associated with static posture by allowing for breaks and movement, thus reducing the duration of any single static position. Therefore, the correct factor to recognize in this context is the long duration of maintaining the same position, which directly correlates with the increased risk of discomfort and related issues.

7. What does having a neutral posture involve?

A. Keeping your body vertically aligned

B. Bending your knees slightly

C. Sitting with your legs crossed

D. Leaning forward in your chair

Having a neutral posture involves keeping the body in an alignment that minimizes strain on the muscles and joints. In this context, it means positioning your body vertically aligned, where the ears, shoulders, and hips are in a straight line. This alignment reduces the risk of injury and discomfort by allowing the natural curves of the spine to be maintained while also ensuring that the muscles are used efficiently without undue stress. The importance of neutral posture lies in its ability to promote proper biomechanics during various activities, whether sitting, standing, or moving. By maintaining this alignment, individuals can perform tasks with greater ease and lower the likelihood of developing repetitive strain injuries or musculoskeletal disorders.

8. When does compression or contact stress typically occur?

A. During periods of extreme relaxation

B. When subjected to minimal pressure

C. When under constant pressure from hard objects

D. During physical activity

Compression or contact stress typically occurs when the body or a specific part, such as a joint or nerve, is subjected to constant pressure from hard objects. This kind of stress arises when there is prolonged contact with a surface or object that does not allow for movement or relief. The pressure exerted can cause discomfort and may lead to musculoskeletal disorders over time if proper ergonomics are not practiced. This phenomenon is particularly relevant in occupational settings where workers might rest their arms on hard surfaces or where tools exert pressure on the hands or wrists, resulting in increased risk of injury. Understanding that constant, localized pressure can lead to significant health issues is vital in creating effective ergonomic solutions and work environments.

9. What is a potential symptom of muscle strain due to repetitive tasks?

A. Numbness in the feet

B. Loss of strength in hands

C. Joint pain in knees

D. Headaches

Muscle strain due to repetitive tasks often leads to localized fatigue and weakness in the affected muscle groups. When muscles are subjected to repetitive motions without adequate rest or support, they can become overworked, resulting in a loss of strength. This is especially noticeable in the hands and forearms for tasks that involve gripping, typing, or other manual activities. The body's natural response to these strains includes muscle fatigue, which manifests as a decrease in strength. Other symptoms that might arise from repetitive tasks can include discomfort or pain in the involved areas, but the specific correlation with loss of strength in the hands links directly to muscle strain and overuse. In contrast, symptoms like joint pain in knees or headaches are more likely related to different types of strain or other underlying conditions, rather than a direct result of muscle strain from repetitive hand activities.

10. What is a significant health concern associated with poor ergonomics?

A. Cardiovascular diseases

B. Respiratory issues

C. Musculoskeletal disorders

D. Skin irritations

Musculoskeletal disorders (MSDs) are closely linked to poor ergonomics in the workplace. These disorders encompass a range of conditions that affect muscles, tendons, ligaments, and nerves, often resulting from repetitive strains, improper lifting techniques, awkward postures, and prolonged periods of inactivity. When the physical demands of a job do not align with an individual's physical capabilities or comfort, it leads to increased stress on the musculoskeletal system. The significance of MSI arises as they can result in persistent pain, restricted movement, and decreased productivity. Practicing good ergonomic principles, such as designing workstations that accommodate the natural movements of the body, can significantly reduce the risk of developing these disorders. By ensuring that work environments promote proper posture, adequate support, and appropriate tools, the incidence of MSDs can be effectively minimized, leading to better overall health and well-being among workers. In contrast, while cardiovascular diseases, respiratory issues, and skin irritations can indeed arise in the workplace, they are not as directly associated with ergonomic practices as musculoskeletal disorders. This distinction highlights why MSDs stand out as a primary concern within the context of ergonomics.