OSHA INTERVIEW QUESTIONS - ERGONOMIC

Source: www.hsevision.net

1. The use of Standing Platforn	ns primarily provides	more stability for	the body, which hel	ps to
reduce what?				

- A. The distance materials must be carried.
- B. Fatigue from awkward, bent postures.
- C. The amount of ambient light needed.
- **D.** The vibration transmitted from tools.

Correct Answer: B

2.	. When using an adjustable workbench, what should be the primary consideration for s	etting
th	he optimal height for seated work?	

- A. The height of the floor.
- B. The height of the work surface to elbow height.
- C. The employee's preferred color.
- **D.** The depth of the materials being handled.

Correct Answer: B

3. What is a key advantage of using Tilt Tables to position materials for a worker?

- **A.** They eliminate the need for a safety harness.
- **B.** They allow the worker to maintain a neutral wrist posture.
- C. They reduce the material's weight.
- **D.** They increase the total floor space available.

Correct Answer: B

4. Lift Tables and Hydraulic Carts are specifically designed to keep the working surface of material at what height?

- A. Above the worker's head.
- B. Between the knee and the waist.
- C. Near the elbow height of the worker.
- **D.** At floor level.

Correct Answer: C

5. When an employee is working on a Lift Table, what is a necessary safety precaution regarding foot placement?

- A. One foot should always be on the floor.
- B. A safety shoe must be worn.
- C. Never stand on the lift table.
- D. The worker should stand on a rubber mat.

Correct Answer: C

6. Which lifting device is recommended for lifting heavy items from floor level?

- A. A manual pallet jack.
- B. A motorized gantry crane.
- C. A stacker or hoist.
- D. A basic fixed-wheel cart.

Correct Answer: C

7. What is an important consideration when selecting the casters (wheels) for Carts and Hand Trucks?

- A. They should be made of plastic.
- **B.** They should be large in diameter.
- C. They should be small in diameter.
- D. They should all be fixed wheels.

Correct Answer: B

8. What is the primary way that Dolly and Skates reduce ergonomic risk?

- A. They eliminate the need for PPE.
- **B.** They reduce the amount of walking required.
- **C.** They allow workers to move heavy/awkward loads without carrying.
- **D.** They provide anti-vibration cushioning.

Correct Answer: C

9. When using an electric Drum Handler, what specific safety precaution must be observed, especially around hazardous materials?

- A. Always use it in a low-light area.
- **B.** Ensure it has an explosion-proof or intrinsic safety rating.
- C. It must only be operated by a supervisor.
- D. Ensure it is painted bright yellow.

Correct Answer: B
10. What is the advantage of a Floor-Based Jib Crane compared to a fixed overhead crane?
A. It has a larger weight capacity.
B. It can be moved easily to multiple locations.
C. It requires less maintenance.
D. It eliminates the need for any operator training.Correct Answer: B
11. What type of lifting device is described as being used for 'precision material handling' in tight spaces?
A. A motorized pallet jack.
B. A heavy-duty gantry crane.
C. A portable hoist or balancer.
D. A standard manual hand truck.
Correct Answer: C
 12. What is the main ergonomic benefit of using a Spring-Loaded or Hydraulic Pallet Positioner when loading/unloading materials? A. It reduces the overall pallet weight. B. It eliminates bending and reaching by keeping the load at an ideal height.
C. It prevents noise exposure.
D. It makes the pallet waterproof.
Correct Answer: B
13. When using manual conveyors, objects are easiest to push or slide when they are at or slightly below what body landmark? A. The worker's eyes. B. The worker's hips. C. The worker's waist. D. The worker's shoulders. Correct Answer: C

14. How does the use of Roller Ball Surfaces reduce the ergonomic risk during material handling?

- **A.** It requires the worker to pull the load.
- **B.** It reduces the friction to move the material in any direction.

	C. It eliminates the need for proper lighting.
	D. It increases the size of the material.
	Correct Answer: B
1	5. Which of the following is an ergonomic advantage of using an Automatic Hose Roller?
	A. It increases the water pressure.
	B. It reduces awkward postures and repetitive motion from manual coiling.
	C. It eliminates the need for safety gloves.
	D. It makes the hose fireproof.
	Correct Answer: B
16	6. The primary advantage of Overhead Hose, Cord, and Cable Management Systems is the
	imination of trip hazards and what else?
	A. It reduces damage to hoses/cables from floor traffic.
	B. It cools the air in the workshop.
	C. It provides a mobile tool platform.
	D. It makes the air lines quieter.
	Correct Answer: A
17	7. What is the primary function of Turning and Rotating Devices (e.g., turntables, positioners)
	an ergonomic setup?
	A. To enforce a limited work area.
	B. To allow the operator to change the orientation of the work without moving their feet.
	C. To provide a high-power electrical source.
	D. To measure the material's temperature.
	Correct Answer: B
1 (3. Racks and Shelves should be designed so that materials are stored between which body
	eights to reduce excessive reaching and bending?
	A. Floor and ankle height.
	B. Shoulder and head height.
	C. Knee and shoulder height.
	D. Head and ceiling height.
	Correct Answer: C

19. What specific design feature of a welding unit makes it possible to eliminate the need for manual lifting for movement?

- A. A high amperage setting.
- B. The inclusion of an attached fixture/handle for a hoist.
- C. A large cooling fan.
- D. A digital control panel.

20. What is the main safety risk when using Synthetic Lines in proximity to welding operations?

- A. The line may break under a light load.
- **B.** The line may be vulnerable to damage from heat or sparks.
- C. The line will be too heavy to handle.
- **D.** The line will cause the load to swing excessively.

Correct Answer: B

21. When using a Stack Blower on Wheels, the use of large diameter wheels is recommended because they specifically reduce what?

- A. The noise level.
- **B.** The required pushing and pulling forces.
- C. The chance of electrocution.
- **D.** The amount of dust generated.

Correct Answer: B

22. In addition to eliminating kneeling and crouching, what is a key ergonomic benefit of using Tool Extension Handles?

- A. They increase tool vibration.
- **B.** They allow the worker to apply force closer to the work.
- C. They reduce the overall weight of the tool.
- **D.** They make the tool fire-resistant.

Correct Answer: B

23. Why is proper maintenance of the tool handle important when using an extension handle?

- A. To ensure the tool does not overheat.
- **B.** To ensure the connection is secure and does not compromise tool integrity.
- C. To increase the tool's power.
- **D.** To reduce the tool's electrical consumption.

Correct Answer: B

24. Tool Balancers reduce fatigue by performing which primary function?

- A. Storing the tool's components.
- B. Neutralizing the tool's weight.
- C. Measuring the tool's rotational speed.
- **D.** Filtering the tool's exhaust.

25. What is a consequence of an out-of-balance grinding wheel or spindle on a power tool?

- A. It increases the tool's speed.
- B. It greatly contributes to tool vibration.
- C. It reduces the tool's weight.
- D. It makes the tool quieter.

Correct Answer: B

26. What is the recommended method for reducing vibration transmission when using a vibrating tool?

- **A.** Use the lightest possible grip while maintaining control.
- B. Use a vise to secure the tool.
- C. Place a heavy weight on the tool.
- **D.** Use the heaviest possible grip.

Correct Answer: A

27. What is the main ergonomic risk mitigated by the use of Robotic Welders in a production environment?

- A. Exposure to high-voltage electricity.
- B. Exposure to chemical solvents.
- C. Fatigue from prolonged manual welding in awkward positions.
- **D.** The risk of slips, trips, and falls.

Correct Answer: C

28. In welding, Electromagnetic and Air Presses reduce the need for manual clamping, thereby reducing which type of ergonomic risk?

- A. Vibration exposure.
- B. Forceful exertions and awkward postures.
- C. Exposure to UV radiation.
- D. Noise exposure.

Correct Answer: B

29. What is the primary benefit of using a Support Bar when handling long pieces of steel for welding or cutting?

- **A.** It makes the steel lighter.
- **B.** It eliminates the need to manually support the steel (static exertion).
- C. It provides a shield from welding flash.
- **D.** It measures the length of the steel.

Correct Answer: B

30. The Dry Dock Centering Device uses a mechanized reel system to achieve what ergonomic improvement?

- A. It makes the ship cleaner.
- **B.** It eliminates the extreme manual pulling forces needed to position a vessel.
- **C.** It monitors the vessel's internal systems.
- **D.** It provides a fixed work platform.

Correct Answer: B

31. Adjustable stools and creepers are effective for shipside work because they allow the worker to maintain what?

- A. A high-speed work pace.
- **B.** A neutral and supported posture in tight or low spaces.
- **C.** A comfortable temperature.
- **D.** A long-distance view of the work.

Correct Answer: B

32. When selecting stools and creepers for a work area, why is the recommendation to use models with locking casters critical?

- A. To increase the total weight capacity.
- B. To prevent unexpected movement that could lead to injury.
- **C.** To make them easy to clean.
- D. To allow the seat height to be adjusted.

Correct Answer: B

33. The primary advantage of a Gas Line Connector Rack is that it reduces the need to manually handle what heavy items?

- A. Welding torches.
- B. Individual gas tanks.
- C. Metal plates.

D. \	Ventilation	hoses.

34. What is the main function of a Davit Crane in a shipyard, and why is this an ergonomic improvement?

- A. It provides light; reducing eye strain.
- B. It lifts heavy items; eliminating manual lifting.
- C. It pumps water; improving drainage.
- **D.** It measures humidity; ensuring air quality.

Correct Answer: B

35. What is a key ergonomic factor regarding the fit of anti-vibration gloves to prevent secondary fatigue?

- A. They must be painted a bright color.
- **B.** They must fit optimally to avoid increasing gripping force.
- C. They must be fire-resistant in all cases.
- **D.** They must have padding only on the back of the hand.

Correct Answer: B

36. Why should anti-vibration gloves be chosen to avoid a dramatic increase in the grip diameter of the tool?

- A. A larger diameter makes the tool less durable.
- B. A larger diameter requires greater muscle force from the hand, causing fatigue.
- C. A larger diameter increases the tool's vibration output.
- **D.** A larger diameter is not permitted by fire code.

Correct Answer: B

37. To minimize the effects of hand-arm vibration, the padding on anti-vibration gloves should be placed where?

- A. On the wrist and forearm only.
- **B.** On the fingertips only.
- **C.** On the full palm and fingers.
- **D.** On the back of the hand only.

Correct Answer: C

38. When selecting Elbow Pads, they must fit snugly to provide protection, but what condition must they avoid causing?

	A. Skin rash.
	B. A strong smell.
	C. Compromised circulation.
	D. Increased arm temperature.
	Correct Answer: C
	9. What environmental factor is known to increase a worker's vulnerability to the effects of and-arm vibration?
	A. Working in a high-glare area.
	B. Working with cold hands.
	C. Working in a low-light area.
	D. Working with a large group of people.
	Correct Answer: B
4	0. Shoulder Pads should be used as an option only when what is impossible?
	A. The worker has no previous injuries.
	B. The object can be lifted by two people.
	C. The item cannot be transported by a cart or crane.
	D. The item is lightweight.
	Correct Answer: C
4	1. Kneeling Supports are devices that distribute weight and primarily reduce what two risks?
	A. Vibration and noise exposure.
	B. Pressure within the knee and excessive knee bending (strain).
	C. Static electricity and glare.
	D. Heat exposure and chemical contact.
	Correct Answer: B
	2. What type of kneepads must be specifically selected for work areas involving welding or utting operations?
	A. Foam-only pads.
	B. Pads with plastic shells.
	C. Fire-resistant pads.
	D. Waterproof pads.
	Correct Answer: C

43. What is the physiological consequence of contact stress on the soft tissues of the knee from prolonged kneeling?

- A. Increased muscle growth.
- B. Reduced circulation and pinched nerves.
- C. Faster recovery from injury.
- D. Reduced heart rate.

Correct Answer: B

44. The ergonomic recommendation to raise work surfaces whenever possible is intended to minimize the need for what specific posture?

- A. Standing.
- B. Reaching overhead.
- C. Kneeling.
- **D.** Twisting the torso.

Correct Answer: C

45. What is an ergonomic advantage of Carts and Hand Trucks when moving heavy materials?

- A. They eliminate the need for load securement.
- B. They allow workers to keep a neutral posture by avoiding manual carrying.
- C. They can lift materials to high shelves.
- **D.** They are exempt from inspection requirements.

Correct Answer: B

46. Point-of-Use Tool Boards reduce wasted time by providing easy access and preventing which tool-related issue?

- A. Tool breakage.
- B. Parts and tools becoming tangled.
- C. Tool theft.
- D. Tool obsolescence.

Correct Answer: B

47. How do Tool Balancers aid in reducing potential injury risk?

- A. They enforce the use of safety glasses.
- **B.** They reduce the static load on the worker's hands and shoulders.
- C. They monitor the tool's power usage.
- **D.** They ensure the tool is always clean.

Correct Answer: B

48. What is a consequence if a Large Hose Reel is not regularly maintained	l, especially in
environments with saltwater and moisture?	

- A. The hose will become stiff.
- **B.** The reel will require greater force to turn.
- C. The water pressure will increase.
- **D.** The color of the reel will fade.

49. When using a Tractor and Trailer for material transport, balancing and securing items on the trailer prevents what safety hazard?

- A. Excessive speed.
- B. Shifting or tipping of the load.
- C. Engine overheating.
- D. Low fuel consumption.

Correct Answer: B

50. What is the primary function of a Gantry Crane in a material handling setup?

- A. To provide a portable exhaust ventilation system.
- **B.** To lift extremely heavy loads using an overhead structure.
- **C.** To measure the height of a worker.
- D. To organize small tools on a rack.

Correct Answer: B

51. What is a key ergonomic advantage of using a Scissor Lift over a fixed platform for varying work heights?

- A. It is powered by natural gas.
- B. It allows the worker to adjust the platform to the precise height needed for a neutral posture.
- C. It is much quieter than a fixed platform.
- **D.** It is exempt from annual inspection.

Correct Answer: B

52. To minimize strain, how should the handle on a hand truck be positioned when moving a load?

- **A.** Above the shoulder height.
- **B.** Between the waist and shoulder height.
- C. As low as possible to the floor.

D.	Angled	awav	from	the	body	/.

53. When using a welding boom to support a welder's arm, what type of ergonomic strain is reduced?

- A. Vibration from the welding process.
- B. Static muscle exertion in the arm and shoulder.
- C. Noise exposure.
- **D.** Exposure to welding fumes.

Correct Answer: B

54. What is the main function of 'Ergonomics for the Prevention of Musculoskeletal Disorders' guidelines?

- A. To mandate the use of all tools.
- B. To provide recommendations for designing work to fit the worker.
- C. To exclusively cover electrical safety.
- **D.** To reduce administrative paperwork.

Correct Answer: B