

NAM VIET OCCUPATIONAL SAFETY TRAINING AND ENVIRONMENTAL MONITORING CO., LTD.

Full name:

Year of birth:

Company:

Please circle one (01) correct answer.

Question 1: Which of the following factors can have the most negative impact on the lifespan of the electronic components inside a robot arm?

- a) Low temperature causing the lubricant oil to thicken
- b) High temperature accelerating the oxidation of electronic components
- c) High humidity increasing the electrical conductivity of the air
- d) Dust accumulating on sensors, reducing their accuracy

Question 2: Under extremely dry environmental conditions, what issue could most seriously affect the robot arm?

- a) Metal corrosion due to lack of humidity
- b) Low temperature causing plastic parts to become brittle and break
- c) Accumulation of dust obstructing the operation of components
- d) Condensed water inside the compartments of the robot arm

Question 3: Which of the following conditions may cause a risk of fire or explosion when operating the robot arm?

- a) Excessive humidity causing a short circuit in the electrical circuit
- b) Low ambient temperature slowing down the processing speed of the microcontroller
- c) Strong light reducing the performance of the optical sensor
- d) Loud noise preventing the operator from hearing error warnings

Question 4: Why can excessively strong light affect the operation of the robot arm?

- a) Heating electronic components, causing control errors
- b) Causing glare, affecting the operator's ability to observe
- c) Reducing the lifespan of the servo motor
- d) Causing the temperature sensor system to operate inaccurately

Question 5: What is the most serious consequence of infrequent maintenance for the robot arm?

- a) Loss of precise positioning ability in assembly tasks
- b) Poor performance of the optical sensor due to insufficient light
- c) Control system overload due to improper software updates
- d) The robot arm becomes unbalanced due to misalignment in gripper force adjustment

Question 6: What is one of the main reasons why the robot arm may experience reduced performance when operating in a low-temperature environment?

- a) The metal in the joints becomes more brittle
- b) The lubricant oil becomes thicker, reducing the flexibility of the joints
- c) The circuit is overloaded due to reduced resistance when the temperature drops.
- d) Ultrasonic sensors are affected by thermal noise.

Question 7: When operating a robotic arm in an environment with toxic chemicals, what is the most serious risk?

- a) Chemicals that abrade metal surfaces, causing inaccuracy during operations
- b) The sensor signal is disturbed due to chemical reaction with air.
- c) Servo motors corrode faster due to exposure to chemical vapors
- d) The control software may be faulty due to electromagnetic fields from other devices.

Question 8: Which of the following conditions can cause a robot arm control software error?

- a) Update firmware without checking hardware compatibility
- b) Low ambient humidity reduces the conductivity of the circuit board.
- c) Increase the engine's operating speed beyond the design level
- d) Install the robot arm on a highly reflective surface

Question 9: Which of the following helps reduce the risk of operating a robotic arm in a noisy environment?

- a) Use highly sensitive sound sensor to detect errors
- b) Equip with flashing light signal warning system
- c) Adjust the audio frequency of the warning to make it more noticeable
- d) Both equip the warning system with flashing lights and adjust the sound frequency of the warning for easier recognition.

Question 10: Why can worker knowledge and skills affect the safety level when operating a robotic arm?

- a) Experienced people can operate the robot arm without periodic inspection
- b) Well-trained staff can recognize risks and react quickly when incidents occur.
- c) Good operating skills reduce the need for equipment maintenance
- d) Experienced people do not need to follow strict safety procedures

Question 11: What is the purpose of occupational safety and hygiene?

- a) Ensure safety for workers, minimize or prevent accidents, injuries or deaths at work.

- b) Ensure that workers are healthy and do not suffer from occupational diseases or other illnesses caused by poor working conditions.
- c) Maintain, restore health and prolong working time for workers.
- d) All 3 sentences a, b and c

Question 12: According to the Law on Labor Safety and Hygiene, how many obligations do employees have?

- a) have an obligation.
- b) has 2 obligations.
- c) has 3 obligations.
- d) has 4 obligations.

Question 13: When a worker has a work accident caused by the Employer's fault and his/her working capacity is reduced by 81%, how much compensation will he/she receive?

- a) 30 Months of Minimum Wage
- b) 30 Months of Social Insurance Salary
- c) 30 months salary according to labor contract.

Question 14: Employees who work continuously for 8 hours or 6 hours according to the provisions of the 2020 Labor Code are entitled to a break of at least how many minutes, counted as working hours?

- a) 20 minutes
- b) 30 minutes
- c) 40 minutes
- d) 50 minutes

Question 15: Employees have the right to refuse to do work or leave the workplace while still receiving full pay and not being considered as violating labor discipline when they clearly see a risk of a work accident that seriously threatens their life and health and must immediately report to the person directly in charge, true or false?

- a) True
- b) False

Question 16: What will workers get when they have occupational diseases?

- a) Treatment and leave from work.
- b) Treatment until recovery and return to old job.
- c) Treatment until recovery and reassignment to work suitable to health.
- d) Provide financial assistance and help find another job.

Question 17: While working, workers can omit some of the contents of the safe working process to do the job faster.

- a) True
- b) False

Question 18: Equip yourself with adequate personal protective equipment to

- a) Preventing work accidents
- b) Preventing occupational diseases
- c) Both of the above

Question 19: According to the provisions of Decree 44/2016/ND-CP dated May 15, 2016 of the Government, workers with strict requirements on occupational safety (group 3) must receive at least how many hours of initial periodic training?

- a) 16 hours
- b) 24 hours
- c) 30 hours
- d) 48 hours

Question 20: When suffering from an occupational disease with a 40% reduction in working capacity due to the employer's fault, what benefits will the employee receive if the employer does not pay unemployment insurance and occupational disease insurance?

- a) Monthly allowance
- b) One-time subsidy
- c) Not entitled to benefits

