

**GEOGRAPHIC INFORMATION SYSTEMS
GEOGRAPHIC INFORMATION CENTER
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***** EXAMINATION *****

SAFETY AND HEALTH REQUIREMENTS MANUAL

1. **A project safety and health plan will include activities such as:**
 - a) surveying, payroll, construction management
 - b) surveying, warehousing, transportation
 - c) surveying, payroll, warehousing
 - d) transportation, payroll, warehousing

2. **The need for analysis for each position is determined by:**
 - a) the chief health office
 - b) the procurement office
 - c) the designated authority
 - d) the environmental engineer

3. **The accident prevention plan shall include inspections of:**
 - a) work sites
 - b) material
 - c) equipment
 - d) All of the above

4. **Factors considered in work assignments include:**
 - a) agility
 - b) endurance
 - c) coordination
 - d) All of the above.

5. **Emergency plans shall include:**
 - a) escape procedures and routes
 - b) list of off-site emergency personnel
 - c) inventory of water hydrants
 - d) None of the above

6. **Emergency alert systems shall be:**
 - a) designed by the safety engineer
 - b) installed by the safety engineer
 - c) developed, tested, and used
 - d) None of the above

7. **An employee working alone in a remote location shall be:**
 - a) provided an extra first aid kit
 - b) provided a HAZMAT uniform.
 - c) provided a means of emergency communications.
 - d) All of the above.

8. **Chemically treated water shall provide a residual chlorine content**
 - a) of 1 to 5 ppm
 - b) of 0.3 to 0.6 ppm
 - c) of 5 to 10 ppm
 - d) None of the above.

9. **Supplied air respirators:**
 - a) never use oxygen.
 - b) always use oxygen
 - c) sometimes use nitrogen
 - d) sometimes use hydrogen

10. **Canister type air-purifying respirators may be used when the**
 - a) oxygen content of air is at least 19.5%
 - b) periodic air monitoring of the work area is conducted
 - c) respirator assembly is approved for protection against contaminants.
 - d) All of the above.

11. **Lanyards and vertical lifelines shall have a minimum tensile**
 - a) strength of 1,000 pounds
 - b) strength of 5,000 pounds
 - c) strength of 7,000 pounds
 - d) strength of 9,000 pounds

12. **Ropes used in lifelines shall be made from:**
 - a) hemp
 - b) wire
 - c) synthetic fibers
 - d) natural fibers

13. **Safety net mesh openings shall not exceed:**
 - a) 3 inches on each side
 - b) 6 inches on each side
 - c) 9 inches on each side
 - d) None of the above

14. **Electrical workers rubber insulating gloves should be**
 - a) tested daily by air
 - b) tested daily by water
 - c) tested daily by gas
 - d) None of the above

15. **Personal flotation devices should be worn:**
- a) on floating pipelines
 - b) in skiffs
 - c) on structures extending over water
 - d) All of the above
16. **Exposure may happen by:**
- a) inhalation
 - b) ingestion
 - c) skin absorption
 - d) All of the above
17. **Calibrated hazardous substance testing devices:**
- a) shall be labeled with the date of calibration
 - b) shall not be labeled with the date of calibration
 - c) shall be labeled with the project manager's name
 - d) None of the above
18. **Asbestos containing material shall be disposed in accordance**
- a) with federal regulations
 - b) with state regulations
 - c) with local regulations
 - d) All of the above
19. **Radiation monitoring devices shall meet:**
- a) HAZMAT standards
 - b) the National Institute of Standards and Technology
 - c) OSHA standards
 - d) All of the above
20. **The users of radiation generating devices shall maintain records:**
- a) for one year after termination of the license
 - b) for three years after termination of the license
 - c) for five years after termination of the license
 - d) None of the above.
21. **All lasers shall contain a label indicating:**
- a) make, maximum output, dBa strength
 - b) make, minimum output, dBa strength
 - c) make, maximum output, and beam spread
 - d) amperage, maximum output, and beam spread
22. **Dosimetry is the measure of:**
- a) inhaled gas.
 - b) radiological exposure
 - c) absorbed gas
 - d) allocated gas

23. **Specular reflections come from a smooth surface such as:**
- a) glass
 - b) hot asphalt
 - c) water
 - d) ice
24. **A typical work load is:**
- a) sedentary
 - b) light and moderate
 - c) heavy
 - d) All of the above
25. **Illuminance at the means of egress shall provide a minimum of:**
- a) 3 lux
 - b) 6 lux
 - c) 11 lux
 - d) 15 lux
26. **Minimum illuminance for conveyor routes is:**
- a) 110 lux
 - b) 130 lux
 - c) 150 lux
 - d) 170 lux
27. **Minimum illuminance for elevators is:**
- a) 110 lux
 - b) 215 lux
 - c) 250 lux
 - d) 295 lux
28. **Danger signs shall use:**
- a) black or red letters on white background
 - b) black or red letters on orange background
 - c) red letters on blue background
 - d) orange letters on white background
29. **The accident prevention color for machines and dangerous**
- a) equipment is red
 - b) equipment is blue
 - c) equipment is yellow
 - d) equipment is orange
30. **The accident prevention color for conditions requiring caution is:**
- a) red
 - b) blue
 - c) yellow
 - d) orange

31. **The accident prevention color for dangerous conditions:**
- a) red
 - b) blue
 - c) yellow
 - d) orange
32. **Flammable liquids shall not be stored in areas used for:**
- a) exits
 - b) stairways
 - c) safe passage of people
 - d) All of the above
33. **Liquid petroleum gas systems shall use:**
- a) aluminum tubing
 - b) polyvinyl chloride
 - c) arc welding only
 - d) None of the above
34. **Fire reporting and evacuating instructions shall be:**
- a) given by the designated officer
 - b) conspicuously posted
 - c) printed in the operations manual and given to each employee
 - d) None of the above
35. **A fire involving combustible metals such as magnesium and zirconium**
- a) is a Class A fire
 - b) is a Class B fire
 - c) is a Class C fire
 - d) is a Class D fire
36. **A fire involving energized electrical equipment is a:**
- a) Class A fire
 - b) Class B fire
 - c) Class C fire
 - d) Class D fire
37. **A fire involving combustible liquids, rubber, and plastic is a:**
- a) Class A fire
 - b) Class B fire
 - c) Class C fire
 - d) Class D fire
38. **A fire involving wood materials is a:**
- a) Class A fire
 - b) Class B fire
 - c) Class C fire
 - d) Class D fire

39. **All welding equipment shall be inspected:**
- a) daily
 - b) weekly
 - c) monthly
 - d) yearly
40. **Under controlled conditions, the welding area may contain:**
- a) propane
 - b) gasoline
 - c) butane
 - d) None of the above
41. **Floating plant and associated equipment shall not be placed within:**
- a) 5 feet of overhead transmission lines
 - b) 10 feet of overhead transmission lines
 - c) 20 feet of overhead transmission lines
 - d) 30 feet of overhead transmission lines
42. **All chain saws shall:**
- a) have an automatic chain brake or kickback device
 - b) idle without chain movement
 - c) be operated by persons wearing protective equipment
 - d) All of the above
43. **Fire extinguishers using carbon tetrachloride are used:**
- a) for oil fires
 - b) for chemical fires
 - c) for all types of fires
 - d) None of the above
44. **Sprinkler deflectors shall clear the top of any stored material**
- a) by at least 6 inches
 - b) by at least 12 inches
 - c) by at least 18 inches
 - d) by at least 24 inches
45. **Temporary wiring for circuit carrying less than 600 volts shall be:**
- a) at least 10 feet above a sidewalk
 - b) at least 12 feet over traffic areas
 - c) at least 18 feet over driveways
 - d) All of the above
46. **Hand and power tools shall be inspected:**
- a) in accordance with manufacturer's instructions
 - b) daily
 - c) weekly
 - d) monthly

47. **Structural pipe without racks shall not be stacked higher than:**
- a) five feet.
 - b) ten feet
 - c) fifteen feet
 - d) twenty feet
48. **Waste material dropped more than six feet should be:**
- a) shredded first
 - b) enclosed by a chute
 - c) should be lowered in an elevator
 - d) None of the above
49. **Rigging chains should be inspected:**
- a) per manufacturer's instructions
 - b) daily
 - c) before initial use and weekly thereafter
 - d) before initial use and monthly thereafter
50. **Cranes should not be operated in winds in excess of:**
- a) those recommended by the manufacturer
 - b) 20 MPH
 - c) 40 MPH
 - d) 60 MPH
51. **When not in use the derrick boom shall be either:**
- a) laid down
 - b) secured to a stationary member as near to the head
 - c) lifted to a vertical position and secured to the mast
 - d) Any of the above
52. **Drilling equipment may be transported with the mast up if:**
- a) the area is smooth and level
 - b) the area is clear of electrical hazards
 - c) the area has stable ground soil
 - d) All of the above
53. **All ATV's should be:**
- a) driven by someone with night driving training
 - b) capable of driven by the driver and passenger
 - c) equipped with a warning signal device such as a horn
 - d) equipped with tires for paved road use
54. **Floating plant storage batteries for emergency lighting should be**
- a) tested every day
 - b) tested every week
 - c) tested every month
 - d) tested every two months

55. **Oxygen cylinders and fittings shall be:**
- a) lubricated with oil
 - b) lubricated with grease
 - c) lubricated with petroleum jelly
 - d) None of the above
56. **Standard guardrails have a vertical height of:**
- a) 30 inches
 - b) 42 inches
 - c) 54 inches
 - d) 60 inches
57. **Toprails for wood railing use:**
- a) 2 x 2 inch lumber
 - b) 2 x 4 inch lumber
 - c) 2 x 8 inch lumber
 - d) 4 x 4 inch lumber
58. **When vertical lifelines are used, one lifeline should be**
- a) provided for every person
 - b) provided for each two people
 - c) provided for each three people
 - d) provided for each four people
59. **Maximum height for a heavy duty scaffold is:**
- a) 30 feet
 - b) 45 feet
 - c) 60 feet
 - d) 75 feet
60. **Maximum width of scaffold for a medium duty scaffold is:**
- a) 2 feet
 - b) 4 feet
 - c) 6 feet
 - d) 8 feet

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I hereby certify that I studied the course materials, and the above answers are my own. No other person has helped me to complete this exam.

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