

## *HSE Questions & Answers*

**Q: 1. OSHA – Occupational Safety Health Administration.**

**Q: 2. OSHAS – Occupational Safety Health Assessment Series.**

**Q: 3. ELCB – Earth Leakage Circuit Breaker.**

**Q: 4. GFCI – Ground Fault Circuit Interrupter.**

**Q: 5. BS – British Standard.**

**Q: 6. SWL – Safe Working Load.**

**Q: 7. ANSI – American National Standard Institution.**

**Q: 8. LTI – Lost Time Incident.**

**Q: 9. ASTM – American Society Testing Materials.**

**Q: 10. JSA – Job Safety Analysis.**

**Q: 11. LEL – Lower Explosive Limit.**

**Q: 12. UEL – Upper Explosive Limit.**

**Q: 13. PEL – Permissible Explosive Limit.**

**Q: 14. REL – Recommended Explosive Limit.**

**Q: 15. POUND – Square Inch (1 Bar = 14.7Psi)**

**Q: 16. SEL – Short Term Explosive Limit.**

**Q: 17. BGT – Wet Bulb Glob Temperature.**

**Q: 18. APR – Air Purifying Respirator.**

**Q: 19. ASR – Air Supplying Respirator.**

**Q: 20. SCBA – Self Contained Breathing Apparatus.**

**Q: 21. ROS – Radiation Safety Officer.**

**Q: 22. NFPA – National Fire Protection Association.**

**Q: 23. MSDS – Materials Safety Data Sheet.**

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**Q: 24. STARRT – Safety Task and Risk Reduction Talk.**

**Q: 25. COSHH – Control of Substances Hazards to Health.**

**Q: 26. CHB – Chemical Hazard Bulletin.**

**Q: 27. HW – Hot Work. (RED)**

**Q: 28. CW – Cold Work. (BLUE)**

**Q: 29. CSE – Confined Space Entry. (GREEN)**

**Q: 30. ROPS – Roll Over Protective System.**

**Q: 31. What is the time frame that preliminary written frame shell submitted the event of an accident involving your company employees or damage to Saudi Aramco equipment property?**

**ANS: 24 hours / 72 hours.**

**Q: 32. How far a part should material and equipment storage yards are located from permanent or temporary structure.**

**ANS: 15 Feet.**

**Q: 33. How should drinking water on S.A job site be dispensed to workers.**

**ANS: Disposable paper cup.**

**Q: 34. Where is a safe place to smoke if any when working on a Saudi Aramco project within a S.A. facilities?**

**ANS: Designate smoking area / shelter.**

**Q: 35. When is it acceptable to drill hole on a hard hat?**

**ANS: Not allowed.**

**Q: 36. When is it acceptable for a worker to paint his hard hat with a specific color to identify his craft or group?**

**ANS: Not allowed or acceptable.**

**Q: 37. What is the proper eye wear to have on when using a portable grinder.**

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**ANS: Safety Glass & Face Shield.**

**Q: 38. What is general PPE items require for all employees working on S.A. project?**

**ANS: Safety Glass, hard hat, safety Shoes and reflected vest.**

**Q: 39. What additional PPE must be worn if any, when working at height more than six feet.**

**ANS: Full body safety harness with lanyard and anchor.**

**Q: 40. What is the minimum eye protection required when using an oxygen and acetylene cutting torch?**

**ANS: Protective eye wear with proper filter (Welding Helmet)**

**Q: 41. What is the proper respiratory protection to be worn to protect yourself against dust inhalation?**

**ANS: 3 mm cotton mask or dust mask.**

**Q: 42. What additional PPE is required if any, when spray painting in progress?**

**ANS: Chemical cartridge respirator.**

**Q: 43. What is the required safe distance between flammable storage areas and nearest building storing combustibles?**

**ANS: 15 meters (50 Feet)**

**Q: 44. What type of container must be used to transport flammable liquids.**

**ANS: Metal container.**

**Q: 45. What type of extinguisher should be used to extinguish a fire involving class "C" materials?**

**ANS: CO<sub>2</sub> / dry chemical powder.**

**Q: 46. What type of extinguisher should be used to extinguish a fire involving class "a" materials?**

**ANS: Water.**

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**Q: 47. What type of certification is required to operate a motor vehicle on S.A. project?**

**ANS: S A government driving license.**

**Q: 48. What is a confined space permit required in an excavation if ever?**

**ANS: 1.2 meter (4 Feet).**

**Q: 49. How long is an S. A. work permit normally valid for?**

**ANS: One shift or end of job.**

**Q: 50. What is one method of making a deep excavation safe to work?**

**ANS: Benching, sloping and shoring.**

**Q: 51. How far should access/exit ladders in an excavation extend above the stepping off point?**

**ANS: 01 meter (3 Feet)**

**Q: 52. How far part should ladder in and excavation be placed?**

**ANS: 7.5 meters (25 Feet).**

**Q: 53. What is the safe working pressure for acetylene?**

**ANS: 15 PSI pound square inch.**

**Q: 54. How fan apart should oxygen cylinder and flammable gas cylinder be stored?**

**ANS: 6.1 meter or 20 feet.**

**Q: 55. What is the proper procedure for compressed gas cylinder?**

**ANS: Store in upright and secured position with protective cap. Do not store at 54c.**

**Q: 56. What should be used to protect the valve of a compressed gas cylinder when it is not in used?**

**ANS: Protective Cap.**

**Q: 57. What is the proper procedure for lighting a cutting torch?**

**ANS: Striker shell used.**

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**Q: 58. How many men can be on a step ladder at the same time if the ladder has rungs on one side and the step on the other side?**

**ANS: Only one.**

**Q: 59. What is the safest method to prevent an extension ladder from moving or falling while it is in use?**

**ANS: Securely tied off.**

**Q: 60. What is the main component of standard scaffold guard rail system?**

**ANS: Top rail, mid rail, toe boards and support up right.**

**Q: 61. What is the proper method of securing a hammer head on a wood handle?**

**ANS: Wooden stick.**

**Q: 62. What is the required voltage for all portable power tools on S.A. construction project?**

**ANS: 110 volts to 125 volts.**

**Q: 63. What must be done prior to changing a grinding disk on a portable grinder?**

**ANS: Switch off (UN plug).**

**Q: 64. What (p.pe) beside safety glasses should a worker wear while using a jack hammer?**

**ANS: Face shield or goggles.**

**Q: 65. Who can certify a worker to use a cartridge operated tools?**

**ANS: Certified by S.A.**

**Q: 66. What is required for all 120 volt, single phase 15 to 20 amperes receptacle outlets on construction site that are not permanent wiring system?**

**ANS: Ground isolation system (GIS) / ground fault circuit interrupter (GFCI).**

**Q: 67: What safety device must be present on a grinder to protect operator from contact with blade?**

**ANS: Safety guard.**

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**Q: 68. What is required prior to be use of a contractor crane on all S. A. project?**

**ANS: S.A. certified crane operator.**

**Q: 69. What is the one of the four conditions that must be met for an air compressor to be used for breathing air?**

**ANS: Third party certified S.A recognized testing agent.**

**Q: 70. What is the procedure to safety transport a load on forklift when the load restricts the operator forward view?**

**ANS: Reverse drive.**

**Q: 71. What color should on oxygen cylinder be?**

**ANS: Green.**

**Q: 72. Can damage extension cords be used on S.A. project provided that they are properly spliced?**

**ANS: Not acceptable.**

**Q: 73. What safety device should be in a place during arc welding operation to prevent injury to nearby workers?**

**ANS: Proper welding screens.**

**Q: 74. What is the minimum frequency that a contractor should conduct a (10) minute safety meeting?**

**ANS: Once a week and daily with safety supervisor.**

**Q: 75. What topics would you discuss when giving safety orientation to new hired employee?**

**ANS: Safety rules, PPE, safe system of work, safety induction, traffic, working at height.**

**Q: 76. What is the color of H<sub>2</sub>S?**

**ANS: Colorless.**

**Q: 77. When is hearing protection needed?**

**ANS: 85 dba decibel above.\**

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**Q: 78. When can the receiver live the site?**

**ANS: Replaced by another receiver of qualified delegate.**

**Q: 79. Is dead man switch necessary in electrical hand tools?**

**ANS: Yes.**

**Q: 80. Is any book needed in the office while handling chemical?**

**ANS: CHB or MSDS.**

**Q: 81. When is critical lifting plan required, write any three?**

**ANS: 1. Crane operating around power line. 2. Night time crane lift. 3. All loads of 40 ton above.**

**Q: 82. At what wind speed crane lifts is not allowed?**

**ANS: 32km/h.**

**Q: 83. At what wind speed is crane suspended man basket not allowed?**

**ANS: Greater then 25km/h.**

**Q: 84. Is 220 volts electrical equipment is allowed to use S.A premises?**

**ANS: Not allowed.**

**Q: 85. Is flash back arrestor required for oxygen and acetylene cylinder regulator?**

**ANS: Yes.**

**Q: 86. What are the types of tags, explain?**

**ANS: RED: do not use. GREEN: allow to use. YELLOW: use with full body harness with lanyard.**

**Q: 87. What class of supplied air respirator be used for specified hazard operation?**

**ANS: Grad D.**

**Q: 88. When H2S alarm heard in what direction will you live the area?**

**ANS: Up wind or cross wind.**

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**Q: 89. Is it necessary to know the wind direction when alarm is hard.**

**ANS: Yes.**

**Q: 90. Heavy equipment allowed to operate with 1.8m of any excavation?**

**ANS: Should be 2 meter.**

**Q: 91. What personal are allowed to enter confined space?**

**ANS: Only authorized person or trained persons.**

**Q: 92. What is use to measure radiation?**

**ANS: Collimator.**

**Q: 93. Name of four WPs used in Aramco and what their specific color?**

**ANS: Hot work (RED), Cold Work (BLUE), Confined space entry permit (Yellow), Releases of hazards (YELLOW).**

**Q: 94. Jan, May, Sep, (GREEN). Feb, Jun, Oct, (RED). March, July, Nov, (BLUE). Apr, August, Dec. (YELLOW).**

**ANS: GRBY**

**Q: 95. Who is responsible to conduct site inspection prior to up issuance?**

**ANS: The permit issuer or his designated representative and the receiver.**

**Q: 96. Seat belt are required?**

**ANS: All persons inside the vehicle.**

**Q: 97. If within arms rich of rotating equipment following can be worn.**

**ANS: None of the above.**

**Q: 98. What is the source information to check the properties of suspected hazards chemical?**

**ANS: MSDS.**

**Q: 99. You can leave a gas cylinder fitting attached even when not in use as long as under a shade?**

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**ANS:** Not allowed to expose direct sunlight or expose none possible ignition (Gas Cylinder)

**Q: 100.** Oxygen cylinder and acetylene cylinder can be stacked together as they empty.

**ANS:** Not allowed.

**Q: 101.** Max working pressure of oxygen is?

**ANS:** 25 PSI.

**Q: 102.** Acetylene pressure may be?

**ANS:** 15 PSI.

**Q: 103.** A device fitted on oxygen and acetylene regulators to prevent flash back is called?

**ANS:** Flash back arrestor.

**Q: 104.** This type of ladder cannot be used while on or electrical equipment or conductor.

**ANS:** Metal.

**Q: 105.** This equipment should be available within 3m from hot working activities?

**ANS:** Fire extinguishers.

**Q: 106.** Oxygen gas cylinder should be kept at least ----- from fuel gases or separated ----- high nor combustible barrier.

**ANS:** 20 feet and 5 feet.

**Q: 107.** Slings and crane hooks are allowed to be used in lifting moving gas cylinder?

**ANS:** Cylinder Bucket.

**Q: 108.** It is allowed to work or stand under suspended load when the slings capacity more than the weight of load lifted.

**ANS:** Not at all.

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**Q: 109. It is permissible not provide barricade for lifting operation when you are in the middle of the desert and nobody is looking?**

**ANS: All lifting activities should be install for barricades.**

**Q: 110. Operating equipment having danger do not operate tag is allowed?**

**ANS: None of the above.**

**Q: 111. Climbing or standing on equipment piping valve or unstable surface is approved when?**

**ANS: Not appropriate under any circumstances.**

**Q: 112. Eating sleeping in this area allowed?**

**ANS: Only in designated area.**

**Q: 113. Height required for body belt to be worn?**

**ANS: 6 feet and above.**

**Q: 114. Fill in tagging requirement for scaffold?**

**A – A scaffold shorter than 6m (20ft) shall be signed by scaffold -----?**

**ANS: Scaffolding Supervisor.**

**B – Scaffold shorter than 6m (20ft) special scaffold shall sign by-----?**

**ANS: Scaffold Supervisor.**

**Q: 115. Who is the person allowed erecting scaffold for S. A.?**

**A – Scaffold shorter than 12.2m (40ft) shall be signed by-----?**

**ANS: Trained and qualified erector.**

**B – Special scaffold or scaffolds taller than 12.2m (40ft)-----?**

**ANS: S. A. approved scaffold contractor.**

**Q: 116. What is the color of tag for scaffold that inspected and signed use?**

**ANS: Green and Yellow.**

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**Q: 117. What color of tag for scaffold that is inspected but is not ready for use?**

**ANS: None of the above (Red).**

**Q: 118-A. An approved specialized scaffold erector can build any types of scaffold?**

**ANS: Yes.**

**Q: 118-B. A scaffold erector can build scaffold shorter than-----high under the supervision of S.A. certified scaffold supervisor?**

**ANS: 12.2 meter (40ft).**

**Q: 119. What is allowed maximum wind speed for crane lifts?**

**ANS: 32km/h, 20mp/h, 17knots.**

**Q: 120. A person allowed operating in S.A. project?**

**ANS: A. S.A certified crane operator. (YES)**

**B. Trainees under the direct supervision of qualified trainer. (NO)**

**C. Crane maintenance personal and inspector in the performance of duties.**

**Q: 121. Who allowed to give signals crane operator during lifting operation and what are their categories?**

**ANS: A. S.A certified rigger - 3 for load up to 10 tons.**

**B. S.A certified rigger - 2 for load up to 20 tons.**

**C. S.A certified rigger –1 can lift all loads and perform critical lift.**

**Q: 122. Give at least three type that is categorized as critical lift?**

**ANS: Tandem lift, lifting of loads above 40 tons, night time lifting.**

**Q: 123. While lifting a load it is necessary to extend out rigger of the crane fully?**

**ANS: Yes.**

**Q: 124. Is hot work or cold work permit is required with a confined space entry permit according to the job done?**

**ANS: Yes.**

**Q: 125. Is asbestos containing material is nothing hazards?**

**ANS: Yes.**

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**Q: 126. Is it allowed to stand on the top of the step ladder?**

**ANS: No.**

**Q: 127. Is it necessary to secure the boom of the crane while running from one end to another end?**

**ANS: Yes.**

**Q: 128. Is a qualified fire watch maintain during welding operation?**

**ANS: Yes.**

**Q: 129. Is a second person is necessary guide the operator of the man lift while moving?**

**ANS: Yes (Flagman)**

**Q: 130. Dose every heavy equipment should have and audible back up alarm?**

**ANS: Yes.**

**Q: 131. Can you relay on your sense of smell to detect H<sub>2</sub>S?**

**ANS: No.**

**Q: 132. Is H<sub>2</sub>S heaver than air?**

**ANS: Yes.**

**Q: 133. What is I D L H?**

**ANS: Immediately dangerous to life or health.**

**Q: 134. Is all boom trucks with loads shall be loaded or unloaded by S.A certified rigger?**

**ANS: Yes.**

**Q: 135. Sleeping or resting under or near heavy equipment allowed?**

**ANS: No.**

**Q: 136. Is necessary place warring sighs near blasting area?**

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**ANS: Yes.**

**Q: 137. Temperature of hot asphalt shall not exceed-----degree Celsius?**

**ANS: 232c.**

**Q: 138. Original copy of the permit is maintained by the issuer for how many month?**

**ANS: 3 Months.**

**Q: 139. What situation can cancel the work permit?**

**ANS: Any unscheduled work stoppage of emergency condition.**

**Q: 140. Who is responsible for the safety of people and equipments on S.A project?**

**ANS: Issuer and Receiver.**

**Q: 141. Permit can be issued up to a period of 30 day under what condition?**

**ANS: No hydrocarbon present by division head approval.**

**Q: 142. Is welding allowed on lines containing greater then 23.5% oxygen?**

**ANS: No.**

**Q: 143. What should be placed outside confined space to notify the personal that entry is in progress?**

**ANS: Sign board or barricade shall be placed.**

**Q: 144. Who is allowed to enter in a confined space?**

**ANS: Only trained person.**

**Q: 145. What should a danger do not operate tag?**

**ANS: Date, time, organization, name, badge number, contact number, equipment name, signature of the installer.**

**Q: 146. Who can operate an abrasive blasting and coating equipment?**

**ANS: Only qualified and S.A certified personal/**

**Q: 147. IA side loading while crane operation allowed?**

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**ANS: No.**

**Q: 148. Who should inspect slings, fitting shackles prior to use?**

**ANS: S.A certified rigger.**

**Q: 149. What is a maximum voltage allowed for portable electrical hand tools?**

**ANS: From 110 to 125 voltage.**

**Q: 150, What is the colour of nitrogen cylinder?**

**ANS: Blue.**

**Q: 151. What is the colour of argon cylinder?**

**ANS: Gray.**

**Q: 152. What is the colour of acetylene cylinder?**

**ANS: Yellow.**

**Q: 153. All loads exceeding ----- of the rated load capacity of the crane for that specific lift?**

**ANS: 85%.**

**Q: 154. All severs with in ----- shall be covered prior to work?**

**ANS: 23 meter(75ft).**

**Q: 155. A qualified fire watch shall be maintained during operations and for ----- after work.**

**ANS: 30 min.**

**Q: 156. Cutting welding and brazing are not allowed in O2 enriched concentration greater than-----?**

**ANS: 23.5%.**

**Q: 157. Welding cable shall be continuo with in ----- of electrode holds?**

**ANS: 3m (10ft)**

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**Q: 158. Service vehicles and equipment shall not be located close than ----- from the well head of processing equipment?**

**ANS: 15m (50ft).**

**Q: 159. Disable two ways radios and telephones rigging up and loading perforating gun unless the gun is at least ----- down hole?**

**ANS: 152 meter (500ft).**

**Q: 160. Qualified personal authorized to work on electrical circuits shall be trained in-----?**

**ANS: First Aid and basic life support.**

**Q: 161. When using full body harness with shock absorbing lanyard they shall be properly secured at least ----- above input surface and not be reused after stopping a fall?**

**ANS: 5,6m (18ft).**

**Q: 162. Personal fall arrest system shall be used on any fixed ladder that is over -----and not equipped with?**

**ANS: 6m (20ft).**

**Q: 163. If the work is -----above the ground its need scaffold or full body harness?**

**ANS: 1.8m (6ft).**

**Q: 164. Only qualified personal shall operate elevating work platform are-----?**

**ANS: Man lifts hydraulic / scissor telescoping.**

**Q: 165. Special scaffold or taller than -----require additional review by S.A consulting services department and as approved third party?**

**ANS: 38m (125ft).**

**Q: 166. Move all drums in -----position using a drum containment pallet, drum rock, basket, or with a drum handling extension?**

**ANS: Up right.**

**Q: 167. No drum shall be removed by -----them between forks?**

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**ANS: Sand witching.**

**Q: 168. All material handling equipment designed to including-----shall be equipped with?**

**ANS: ROPS (roll over protective structure).**

**Q: 169. Personal monitors shall be worn required by local operation procedures in area where H<sub>2</sub>S concentration has been detected at -----ppm or greater?**

**ANS: 10ppm.**

**Q: 170. All personal performing work in areas where H<sub>2</sub>S concentration have been detected at -----ppm shall were approved respiratory equipment?**

**ANS: 10ppm.**

**Q: 171. No entry shall be allowed in atmosphere of -----?**

**ANS: 100ppm.**

**Q: 172. Never attempt to rescue an H<sub>2</sub>S victim without proper respiratory protection in the form of -----?**

**ANS: Self contained breathing apparatus (SCBA).**

**Q: 173. What is odder threshold?**

**ANS: Similar to rotten eggs its limits are on 0.10ppm.**

**Q: 174. Eye irritation and threshold limit value (TLV) limit average TWA-----ppm?**

**ANS: 10ppm.**

**Q: 175. Strong odor and pulmonary irritation begins-----?**

**ANS: 25ppm.**

**Q: 176. Serer conjunctivitis with prolong exposure-----?**

**ANS: 50ppm.**

**Q: 177. Sever eye irritation and coughing and loss of sense of smell in 1 minute to 5 IDLH-----?**

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**ANS: 100ppm.**

**Q: 178. Pulmonary edema and gastrointestinal disturbance are-----?**

**ANS: 250ppm.**

**Q: 179. Dizziness and loss of consciousness possible within 30 minute are-----?**

**ANS: 500ppm.**

**Q: 180. Immediate unconsciousness and death within minutes -----?**

**ANS: 1000ppm.**

**Q: 181. Aisles correctly established with -----clear width?**

**ANS: 76cm (30 inch)**

**Q: 182. No storage within -----of ceiling?**

**ANS: 0.6m (2ft).**

**Q: 183. Electrical switch panels clear-----?**

**ANS: 1m (3ft).**

**Q: 184. Extension cords maximum length-----?**

**ANS: 3m (10ft).**

**Q: 185. All visitors to marine vessel barge, offshore drilling rigs shall first report direct to-----?**

**ANS: Person in charge.**

**Q: 186. The person in charge shall provide to all passengers with orientation of the vessel, barge, of mobile offshore drilling rig including -----?**

**ANS: Life raft and fire station.**

**Q: 187. When disembarking from vessel / barge to an offshore platform from boat landing, do not disembark until the person in charge has given permission to do so-----?**

**ANS: Yes.**

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**Q: 188. Never go outside the ship rail unless authorized by the person in charge?**

**ANS: Yes.**

**Q: 189. In the event that a person fall in the water immediately shout----- assist in the rescue as directed by the person in charge?**

**ANS: Man over board.**

**Q: 190. Personal baskets shall not be permitted to transfer personal when the wind speed is -----?**

**ANS: 25km/h (14knot).**

**Q: 191. In case of eye or skin contact promptly flush affected areas with clean water for prolong period-----minutes?**

**ANS: 15min.**

**Q: 192. Position (lower) hydraulic crane booms and secure hood while traveling -----?**

**ANS:**

**Q: 193. Has regulators shall be turn off and hoses bled off at the end of shift or task?**

**ANS: Yes.**

**Q: 194. Only strikers shall be used to light a torch, never light a torch with match or lighter?**

**ANS: Yes.**

**Q: 195. Acetylene cylinder in use shall have a handle or valve wrench in place at all times?**

**ANS: Yes.**

**Q: 196. Shakles and other connecting devices shall be completely closed?**

**ANS: Yes.**

**Q: 197. Drivers shall perform a -----degree walk around before getting in to the vehicle?**

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**ANS: 360 degree.**

**Q: 198. Drivers shall report all vehicles collision and moving violation immediately no matter how minor?**

**ANS: Yes.**

**Q: 199. Follow proper guidelines for check loading and unloading pyramid or stripped loads?**

**ANS: Yes.**

**Q: 200. Forklifts shall not be used beyond their rated load?**

**ANS: Yes.**

**Q: 201. Forks shall not be left in up position while forklift is unattended?**

**ANS: Yes.**

**Q: 202. A verification of minimum wall thickness and pipe condition shall be conducted welding on wall thickness less than ----- shall nor be allowed?**

**ANS: 0.6cm (0.25inch).**

**Q: 203. SCBA equipment shall not be used at depth greater than -----?**

**ANS: 45 meter (150 feet).**

**Q: 204. A diving supervisor is required when three or more divers go deeper than --- -----?**

**ANS: 30 meter (100 feet).**

**Q: 205. A recompression chamber shall be on site for all divers below?**

**ANS: 18.5m (60ft).**

**Q: 206. All divers shall possess a fit medical certificate not more than how many months?**

**ANS: 12 months.**

**Q: 207. Barriers and warning signs shall be established at boundary for safe operation and storage?**

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**ANS: 2 meters.**

**Q: 208. Cabs fitted to equipment must give visibility -----?**

**ANS: 360 degree.**

**Q: 209. Angles not exceeding from vertical?**

**ANS: 60 degree.**

**Q: 210. Booms shall be kept from overhead power lines if it has 50000v up to -----?**

**ANS: 6m (20ft). If above 250000v 7.6m (25ft).**

**Q: 211. Tie scaffold to solid structures every----- horizontally?**

**ANS: 9.1m (30ft).**

**Q: 212. Fall protection is required for unguarded floors and platforms at -----or above?**

**ANS: 1.8m (6ft).**

**Q: 213. Radio transmitters shall not be allowed within ----- of electronic detectors unless they are de energized and effectively locked?**

**ANS: 33m (100ft).**

**Q: 214. All excavated soil to at least ----- from the edge of the trench?**

**ANS: 0.6m (2ft)**

**Q: 215. Any spoil pile within -----of edges shall be removed before entering of the excavation?**

**ANS: 0.6m (6ft).**

**Q: 216. Type C soil width versus height angle?**

**ANS: 1.5 to 1 slope or 34 degree.**

**Q: 217. Type B soil rocks and clay angled at -----?**

**ANS: 1 to 1 slope 45 degree.**

**Q: 218. Type A soil clay rock cohesive angle at -----?**

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**ANS:**  $\frac{3}{4}$  to slope or 53 degree.

**Q: 219.** Stable rock is -----?

**ANS:** 90 degree or vertical.

**Q: 220.** Who can certify cartridge operated tools?

**ANS:** Manufacturing.