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| Company  Logo | **Job Safety Analysis (JSA) for Confined Space Entry** | Project.  Rev: 00  Date: |

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| PPE’s Required: Safety helmet, Safety Shoes, gloves, Coverall, Goggles, Dust Mask, Jackets Ear Plug, and Full Body Safety Harness. | |
| Date: | Prepared by: |

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| Job: CIVIL ACTIVITIES | JSA: |

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| Task/Activity | Hazards | Control Measures | Responsible Person | Risk Rating |
| Pre-Entry Preparation | Lack of proper training | Ensure all personnel involved are trained and certified in confined space entry procedures. | Supervisor | Medium |
| Inadequate communication | Establish clear communication protocols, including radios or hand signals. | Team Lead | Medium |
| Poor risk assessment | Conduct a thorough risk assessment and develop an entry permit system. | Safety Officer | High |
| Inappropriate PPE selection | Ensure the appropriate PPE (e.g., respirators, gloves, hard hats) is available and inspected before use. | Safety Officer | Medium |
| Entry into the Confined Space | Oxygen deficiency | Test the atmosphere for oxygen levels using calibrated gas detectors. Ensure oxygen levels are between 19.5%-23.5%. | Authorized Gas Tester | High |
| Toxic gas presence | Use gas detectors to monitor for toxic gases (e.g., H2S, CO). Ventilate the space as necessary. | Authorized Gas Tester | High |
| Explosive atmosphere | Ensure no flammable gases exceed 10% of the lower explosive limit (LEL). Use intrinsically safe tools and lighting. | Supervisor | High |
| Physical injury due to slips, trips, or falls | Inspect the area for hazards. Ensure adequate lighting and proper housekeeping. | Team Lead | Medium |
| Restricted access/egress | Confirm that access points are clear and emergency escape routes are planned. | Supervisor | High |
| Work Activities Inside the Confined Space | Entrapment or engulfment | Monitor material storage or movement inside the space. Use barricades or supports to prevent collapses. | Supervisor | High |
| Heat stress or hypothermia | Monitor workers for signs of heat stress or hypothermia. Schedule regular breaks and provide hydration. | Team Lead | Medium |
| Noise | Use hearing protection if noise levels exceed 85 dB. | Supervisor | Medium |
| Falling objects | Ensure all tools and equipment are secured. | Team Members | Medium |
| Manual handling injuries | Use proper lifting techniques and mechanical aids for heavy items. | Team Members | Medium |
| Emergency Situations | Failure to rescue in time | Have a trained standby rescue team with equipment (e.g., harnesses, tripod, SCBA). | Emergency Response Team | High |
| Fire or explosion | Keep fire extinguishers and suppression systems on standby. Conduct hot work only with permits. | Supervisor | High |
| First aid unavailability | Ensure a first aid kit and trained personnel are present on-site. | Safety Officer | High |
| Post-Entry Activities | Residual hazardous substances | Conduct a thorough decontamination and ventilation of the confined space. | Team Lead | Medium |
|  | Improper documentation | Complete and review the confined space entry permit and incident reports. | Supervisor | Low |
|  | Fatigue of workers | Schedule rest periods and review performance to ensure safety. | Team Lead | Low |

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| Severity Rating: (1) First Aid / Minor Property Damage. (2) Recordable Accident / Property Damage.  (3) Lost Time Accident / Major Property Loss. (4) Catastrophic Accident |
| What I Am Going to Do? How I Am Going to Do? What are the Risks? How do I Control Risks? Is Risks too High? |
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