|  |  |  |
| --- | --- | --- |
|  Company Logo  |  **Job Safety Analysis (JSA) Painting & Sandblasting**  | Project. Rev: 00Date:  |

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

|  |  |
| --- | --- |
| Job: CIVIL ACTIVITIES  | JSA: |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task/Activity | Hazards | Control Measures | Responsible Person | Risk Rating |
| **Preparation of Work Area** | - Slips, trips, and falls | - Remove unnecessary items from the work area. Ensure clear walkways and remove tripping hazards. | Supervisor/Team Leader | Medium |
| - Unauthorized personnel in the area | - Install barriers, warning signs, and tape to restrict access to the worksite. | Supervisor | Low |
| - Fire hazards | - Ensure no flammable materials or ignition sources near the work area. | Safety Officer | Medium |
| **Handling of Paints & Chemicals** | - Chemical exposure to skin and eyes | - Use appropriate PPE (gloves, goggles, coveralls). | Workers/Supervisor | High |
| - Inhalation of toxic fumes | - Use respirators with the appropriate filters; ensure proper ventilation or localized exhaust systems. | Workers | High |
| - Spills and leaks | - Use spill containment systems and follow spill response procedures. | Workers | Medium |
| **Surface Preparation (Sandblasting)** | - Exposure to dust and silica particles | - Wear respirators designed for dust protection; use dust suppression systems. | Workers | High |
| - High-pressure equipment hazards | - Ensure workers are trained in the use of sandblasting equipment; inspect equipment before use. | Supervisor | High |
| - Noise exposure | - Provide and enforce the use of hearing protection devices. | Workers/Supervisor | Medium |
| - Eye injuries from flying particles | - Use full-face shields and goggles. | Workers | High |
| **Painting Operations** | - Chemical exposure during spray painting | - Use ventilated spray booths or work outdoors in well-ventilated areas. | Supervisor/Workers | High |
| - Overspray contaminating nearby areas | - Use drop cloths, tarps, or enclosures to contain overspray. | Workers | Medium |
| - Fire and explosion risks from flammable paint | - Store paints in designated fire-proof storage areas; prohibit smoking or open flames near the work area. | Safety Officer | High |
| **Working at Heights** | - Falls from height | - Use harnesses, lanyards, and fall arrest systems; inspect equipment before use. | Workers/Supervisor | High |
| - Improper ladder or scaffold usage | - Ensure ladders and scaffolds are stable and meet regulatory standards; conduct pre-use inspections. | Workers | High |
| **Clean-up and Waste Disposal** | - Exposure to hazardous waste | - Wear appropriate PPE; follow proper procedures for handling and disposing of hazardous waste. | Workers | Medium |
| - Environmental contamination | - Use designated waste containers; ensure compliance with local environmental regulations. | Safety Officer | Medium |
| **Emergency Response** | - Fire, chemical spills, or medical emergencies | - Provide fire extinguishers, first aid kits, and spill kits; train workers on emergency response procedures. | Supervisor/Safety Officer | High |
|  | - Lack of communication during emergencies | - Ensure workers have access to communication devices and know emergency contact numbers. | Supervisor | Medium |

|  |
| --- |
| 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? |
|    \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ HSE Representative Verified By Approved By |