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| **Key initial considerations for task** *- if* ⌧ *= YES identified and required, if* 🞏 *= considered but not required for this task* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Airside security | | |  | | | Air conditioning isolation | | | | |  | | Border Health and Biosecurity | | |  | | Confined space (PTW) | | |  | | | | Consent to work | |  | | | Critical Control Systems management | |  | | | Competencies of all workers | | |  | | Concurrent / overlapping activities |  |
| Communication (Others, neighbours) | | |  | | | Emergency Contact list (key staff & services) | | | | |  | | Equipment airside safely managed | | |  | | Fire alarm / sensors isolation | | |  | | | | Ground penetration | |  | | | Isolation zone > than work zone | |  | | | Job Safety Assessment Requirements | | |  | | Location of Safety & Emergency Equipment |  |
| Moving equipment in common user space | | |  | | | Planned Outage | | | | |  | | Protective barriers for activities | | |  | | Safety spotter / watch for activities | | |  | | | | Site requirements & induction | |  | | | Smoke alarm / sensors isolation | |  | | | Special Hazards | | |  | | Sprinkler System Shutdown |  |
| Shift work / hours of work / fatigue | | |  | | | Surface Penetration | | | | |  | | Toolbox meeting | | |  | | Traffic Management | | |  | | | | Working alone or in isolation | |  | | | Working in common user space | |  | | | WorkSafe notifiable activity | | |  | | Work instruction / procedures |  |
| **Hazard** *- if* ⌧ *= YES identified, if* 🞏 *= Not observed or present* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Chemical** | | | | | | | **Gravitation** | | | | | **Electrical** | | | | | **Thermal** | | | | | **Kinetic** | | | | | | **Pressure** | | | | | | | **Radiation/Vibration** | | | | **Environment/Health** | |
| Combustible materials | | |  | | | | Ceiling tiles / material | | |  | | Buried cables | | |  | | Boilers / hot water/ steam | |  | | | Fixed plant | | |  | | | Air or gas cylinders | | | |  | | | Compressors | | |  | Airborne / surface disease |  |
| Dust & fumes | | |  | | | | Ladders | | |  | | Damaged fittings | | |  | | Cutting/grinding | |  | | | FOD & Flying debris | | |  | | | Boiler | | | |  | | | Electric arc & high voltage | | |  | Concurrent / overlapping activities |  |
| Fuels and solvents | | |  | | | | Lifting devices | | |  | | Exposed cables or extension leads | | |  | | Fire, heaters, heat guns | |  | | | Moving / rotating propeller | | |  | | | Compressor | | | |  | | | Generators | | |  | Confined space |  |
| Gases | | |  | | | | Manual lifting | | |  | | Electrical boxes | | |  | | Generators | |  | | | Engine ingestion | | |  | | | Couplings & valves | | | |  | | | Magnetic source | | |  | Congested area |  |
| Hazardous atmospheres | | |  | | | | Pathways / walkways | | |  | | Mains power | | |  | | Hot exhaust / stacks | |  | | | Moving Aircraft | | |  | | | Filters | | | |  | | | Sun / UV light | | |  | Flammable / toxic vapours |  |
| Hazardous materials | | |  | | | | Scaffolding | | |  | | Generator / Electric chargers | | |  | | Power Tools | |  | | | Moving vehicles / equipment | | |  | | | Fire extinguisher and or deluge systems | | | |  | | | Thermal radiation | | |  | Moving vehicles / equipment |  |
| Oils & Fluids | | |  | | | | Slippery / uneven surfaces | | |  | | Overhead cables | | |  | | Soldering iron | |  | | | Jet blast | | |  | | | Tanks, Hoses & Pipes carrying liquids& gas | | | |  | | | Tools | | |  | Access / egress |  |
| Paint | | |  | | | | Unsecured items | | |  | | Power Tools | | |  | | Sun’s heat | |  | | | People moving | | |  | | | Water blaster | | | |  | | |  | | |  | Poor ventilation (unsafe oxygen levels) &/or poor lighting |  |
|  | | |  | | | | Work at height or at different heights | | |  | | Static electricity | | |  | | Welding | |  | | | Power / air tools | | |  | | |  | | | |  | | |  | | |  | Rain / flooding / wind / dust / hot / cold (weather) |  |
| **Harm & Consequences** - *if* ⌧ *= YES identified and considered, if* 🞏 *= threat considered but not identified or not present* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Chemical** | | | | | | | | **Gravitation** | | | | | | **Electrical** | | | **Thermal** | | | | | **Kinetic** | | | | | | **Pressure** | | | | | | | **Radiation/Vibration** | | | | **Environment** | |
| Asphyxiation | | | |  | | | | Back injuries | | | | |  | Asset damage |  | | Asset damage | |  | | | Being struck by:……………... | | |  | | | Breached lines | | | |  | | | Asset damage / failure | | |  | Asphyxiation |  |
| Cold/Hot burns | | | |  | | | | Damage to assets | | | | |  | Electrocution |  | | Blast injuries | |  | | | Collision involving people, plant & vehicles | | |  | | | Equipment failure | | | |  | | | Noise pollution | | |  | Collision / damage to assets |  |
| Corrosion | | | |  | | | | Dropped items | | | | |  | Heat source |  | | Electrocution | |  | | | Electric discharge | | |  | | | Failing couplings, hoses, pipes, valves, tanks | | | |  | | | Radiation sickness | | |  | Contamination of ground / air |  |
| Absorption / inhalation /ingestion | | | |  | | | | Fall off or fall onto | | | | |  | Ignition source |  | | Friction burns | |  | | | Hearing damage | | |  | | | Fire deluge system / Alarm activation | | | |  | | | Reduced visibility | | |  | Dust |  |
| Environmental damage | | | |  | | | | Head injuries | | | | |  | Short circuit |  | | Ignition sources (vapours/materials) | |  | | | Ignition source | | |  | | | Fire / explosion | | | |  | | | Skin, eye, hearing irritation/injury/damage | | |  | Falling objects |  |
| Exposure to hazardous materials | | | |  | | | | Hit by falling objects or unsecured items | | | | |  |  |  | | Skin burn – electrical / hot / cold | |  | | | Injury from tools or items | | |  | | | High pressure jets | | | |  | | |  | | |  | Fire / explosions |  |
| Fire / Explosion | | | |  | | | | Pinch points | | | | |  |  |  | |  | |  | | | Pinch points | | |  | | | Incorrect equipment | | | |  | | |  | | |  | Injuries / slips / trip / falls |  |
| Irritation / sensitivities / injury (smell, skin, eyes) | | | |  | | | | Rolling & sliding objects | | | | |  |  |  | |  | |  | | | Rolling & sliding objects | | |  | | | Leaking tanks / lines | | | |  | | |  | | |  | Restricted exit |  |
|  | | | |  | | | | Slips, trips, falls | | | | |  |  |  | |  | |  | | | Striking structures | | |  | | | Missiles | | | |  | | |  | | |  | Exposure to hazardous materials |  |
|  | | | |  | | | |  | | | | |  |  |  | |  | |  | | |  | | |  | | | Static discharge | | | |  | | |  | | |  | Weather exposure & conditions |  |
| **Controls** **- if** **⌧ = YES controls in place, if 🞏** = control considered but not included in task | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Chemical** | | | | | **Gravitation** | | | | | **Electrical** | | | | | | | **Thermal** | | | | | **Kinetic** | | | | | | | **Pressure** | | | | | | **Radiation/Vibration** | | | **Environment** | | |
| Bag/Tag/Dispose | |  | | | Anchor points | | |  | | Confirm competencies (certification / licences) | | | | |  | | Cotton overalls | | |  | | Correct PPE for task | | | |  | | | Appropriate training | | |  | | | Barriers/screens | |  | Correct PPE for task |  | |
| Certified handlers | |  | | | Chains / straps / strops | | |  | | Inspections | | | | |  | | Exclude flammable vapours | | |  | | Exclude flammables | | | |  | | | Certified equipment | | |  | | | Correct PPE for task | |  | Confined space (PTW) |  | |
| Clean up | |  | | | Correct fall protection systems/nets in place | | |  | | Intrinsically safe equipment | | | | |  | | Exclude from Hazardous zone | | |  | | Isolation/ exclusion zone with barriers | | | |  | | | Confirm competencies (certification / licences) | | |  | | | Isolation / exclusion zone with barriers | |  | Competencies / licenses of contractors |  | |
| Conduct Gas testing | |  | | | Equipment (cranes, scaffolding, EWP) | | |  | | Isolation / exclusion zone with barriers | | | | |  | | Fire extinguishers | | |  | | Isolation checklist (PTW) | | | |  | | | Correct PPE for task | | |  | | | Move out of line of fire | |  | Exclude sources of ignition |  | |
| Create Vapours barrier | |  | | | Forklift attachments | | |  | | Isolation checklist (PTW) | | | | |  | | Hot Work (PTW) | | |  | | Licensed operators | | | |  | | | Gas cylinders chained | | |  | | | Safe procedures | |  | Forced ventilation |  | |
| Ensure good ventilation | |  | | | Move out of line of fire | | |  | | Lock Out Tag Out | | | | |  | | Isolation / exclusion zone with barriers | | |  | | Lock Out Tag Out & Permit to work | | | |  | | | Good ventilation | | |  | | | Signage | |  | Housekeeping |  | |
| Handle with care | |  | | | Three points of contact | | |  | | Maintenance records | | | | |  | | Isolation checklist (PTW) | | |  | | Move out of line of fire | | | |  | | | Hot work permit | | |  | | | Sun block lotion | |  | Improve means of communication |  | |
| Isolation / exclusion zone with barriers | |  | | | **Secure:-** | | |  | | Move out of line of fire | | | | |  | | Minimise exposure | | |  | | Pedestrian zones | | | |  | | | Isolate services (water, fire, alarm) | | |  | | | Sun glasses | |  | Isolation / exclusion zone with barriers |  | |
| Move out of line of fire | |  | | | PPE (harnesses, lanyards) | | |  | | Utility owner Close Approach Consent | | | | |  | | Move out of line of fire | | |  | | Safety/security zone | | | |  | | | Isolation barriers & zone | | |  | | | Welding mask | |  | Move out of line of fire |  | |
| Minimise quantities | |  | | | Three points of contact | | |  | | RCD’s | | | | |  | | Remove / dissipate | | |  | | Signs /placarding | | | |  | | | Isolation checklist (PTW) | | |  | | |  | |  | No arc welding (wet) |  | |
| Neutralising agents | |  | | | Secure: | | |  | | Tools & equipment | | | | |  | | Sun block, hat, etc. | | |  | | Runway/apron sweeping | | | |  | | | Licensed operators | | |  | | |  | |  | No over lapping or concurrent activities |  | |
| Personal hygiene | |  | | | Tools | | |  | | Safety spotter | | | | |  | | Thermal / electric isolation | | |  | | Runway/apron inspections | | | |  | | | Lock Out Tag Out | | |  | | |  | |  | Plant/scaffold/equipment certification |  | |
| Protect skin & eyes with PPE | |  | | | **Correct manual handling:** | | |  | | Pot hole or hydrovac to identify services | | | | |  | | Use right tools | | |  | |  | | | |  | | | Maintenance | | |  | | |  | |  | Restrict exposure |  | |
| Remove threat | |  | | | Correct bracing & lifting | | |  | | Mechanical digging limits | | | | |  | | Use tools correctly | | |  | |  | | | |  | | | Move out of line of fire | | |  | | |  | |  | Site induction for all workers & visitors |  | |
| Respirator / Breathing PPE | |  | | | Get help to lift | | |  | |  | | | | |  | |  | | |  | |  | | | |  | | | Safe storage | | |  | | |  | |  | Stop work in bad weather. |  | |
| Spill kit available | |  | | | Reduce size & weight of load | | |  | |  | | | | |  | |  | | |  | |  | | | |  | | | Use right tools | | |  | | |  | |  | Take 5 when conditions change |  | |
| Systems flushed | |  | | | Use of mechanical aids | | |  | |  | | | | |  | |  | | |  | |  | | | |  | | | Safety spotter | | |  | | |  | |  | Work within equipment / product / process specifications |  | |
| Water supply for dilution | |  | | |  | | |  | |  | | | | |  | |  | | |  | |  | | | |  | | | Pot hole or hydrovac to identify services | | |  | | |  | |  | Regular health monitoring |  | |
|  | |  | | |  | | |  | |  | | | | |  | |  | | |  | |  | | | |  | | | Mechanical digging limits | | |  | | |  | |  | Safety spotter + rescue plan & equipment |  | |

This document **must be completed** when developing a JSA for High Risk Work (refer to SMS 06.02.20) and included with the PTW Application.

It is a useful tool which **should be considered and referenced** when completing a JSA for Low or Medium Risk Work, developing SOPs, reviewing or developing Hazard Registers and when doing a risk assessment for a task or multiple tasks.