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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.