SPRAY PAINTING & BOOTH

APPLYING PAINT SAFELY TO OBJECT THROUGH SPRAY TECHNIQUE AND SAFE USE OF SPRAY PAINTING BOOTH

SWP NO.

POTENTIAL SAFETY RISKS:

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SAFETY ACTIONS:

Follow the pre-work, work and post work procedures listed below including required PPE (Personal Protective Equipment)

PERSONAL PROTECTIVE EQUIPMENT (PPE) REQUIRED:

- Hand Protection
- Face & Respiratory Protection
- Eye Protection
- Feet Protection
- Hearing Protection
- Body Protection

SAFE WORK PROCEDURE:

PRE-WORK
Spray painting refers to the process by which a liquid coating substance, such as paint, is converted into a mist or aerosol in order to apply a coating to an object or surface. The hazards of spray painting include:
- Exposure to hazardous substances
- Flammability/Dangerous Goods Storage
- Lead in paint
- Compressed air hazards
- Reduced Visibility
- Electrical hazards
- Manual handling.

Per HSWA legislation and WorkSafe NZ regulations, the painter shall ensure that:
- Spray painting is carried out in a spray booth where possible.
- No person (other than persons required to be in the spray booth as part of the spraying process) are in the spray booth during spray painting.
- Any persons in spray booth during spray painting are wearing appropriate personal protective equipment.

If, however, spray painting cannot be conducted within the booth spray painting may be conducted outside the spray booth with the application of the following controls. A full risk assessment will be conducted if spray painting is required outside the spray booth to ensure that painting workers, the public and others are not exposed to spray painting hazards.

Spray painting outside spray booths risk control measures
The painter shall ensure that spray painting conducted outside of spray booth:
- Is carried out in the open air at least 6 metres from every building from every other thing that might obstruct ventilation.
- Is effectively isolated from every other process in which persons are employed and that is within 6 metres from the place at which the spray painting substance is being applied.
- Is effectively isolated from all plant, machinery and equipment that is, or may become, a source of ignition and that is within 2 metres, measured vertically above, and 6 metres, measured in other directions, from the place at which the spray painting substance is being applied.

If it is not reasonably practicable to conduct spray painting in the open air the painter shall ensure that the place where the spray painting is carried out is adequately ventilated (by natural or mechanical ventilation) and the spray painting is effectively isolated.
Spray painting is not effectively isolated:
- From another process if a substance from the spray painting can be inhaled by a person engaged in the other process, or
- From plant, machinery or equipment if there is a risk that a substance from the spray painting will be ignited by a source of ignition from or associated with the plant, machinery or equipment.

The painter shall ensure that persons carrying out spray painting to which this clause applies are wearing appropriate PPE. Safety Data sheets will be procured for all spray painting substances and use of such substances will be governed by the SDS. **Spray Booth Design & Maintenance**
- Refer to Australian / New Zealand Standard AS/NZS 4114 Spray Painting Booths.
- The booth should have appropriate signage to indicate spray painting in progress.
- Adequate ventilation systems, > 0.5 m/s, for extraction of contaminated air with a high density filtration system.
- Scheduled replacement and cleaning of filters.
- All electrical sources (lights/fan motors) are to be fire rated for use in hazardous atmospheres.
- There should be no other potential ignition sources within the booth
- Fan motors to be located outside the booth.
- No build-up of over spray on walls.

**Spray Painting & Spray Paint Booth painting worker induction, consultation & competency**
- Undertake spray paint and or spray paint booth pre-work & site briefing for painting workers.
- Engage and consult with painting workers regarding spray painting and or spray paint booth work tasks and safety issues & concerns.
- Verify competence of painting workers performing spray painting and or spray both painting task and currency of permits / tickets where required.
- Up-date Painting Worker Training & Competency record for spray painting and painting spray booths.

**Set-up & check PPE for spray painting**
- Ensure that you have appropriate and well maintained PPE for the spray painting requirements.
- All spray painting workers are required to use:
  - Filter Cartridge Respirator
  - Air supplied respirator with hood or helmet type coverage
  - Eye and hearing protection
  - Gloves, and overalls
- Appropriate training provided to all workers on the correct use, storage and maintenance of PPE.
- Breathing air supply should have no contaminants near inlet of compressor.
- Respirator filters should be changed prior to each use.
- All spray painters provided with own spray painting PPE that is not to be shared.

**Spray Booth check / maintenance**
- The booth should have appropriate signage to indicate spray painting in progress.
- Adequate ventilation systems, > 0.5 m/s, for extraction of contaminated air with a high density filtration system.
- Scheduled replacement and cleaning of filters.
- All electrical sources (lights/fan motors) are to be fire rated for use in hazardous atmospheres.
- There should be no other potential ignition sources within the booth
- Fan motors to be located outside the booth.
- No build-up of over spray on walls.
- Hazardous substance record up-to-date
- Electrical equipment tested & tagged

**WORK**

**Conduct spray painting**
- Check all plant, equipment and PPE is operational before use.
- Ensure that all relevant Safety Data Sheets are available for all hazardous substances being used.
- Check location and availability of fire extinguishers.
- Turn on extraction system, erect signage and close door to eliminate exposure to others.
- Only painting workers conducting spray painting are allowed access into the booth when in operation.

**POST-WORK**
- Finishing & cleaning-up spray painting & booth.
- Return all spray painting gear where used.
- Return paints to storage.
- Clean & store PPE where used.
- Clean up-area where required.