DUBAI AVIATION CITY CORPORATION OHSE CODE OF PRACTICES







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PAINT SPRAY BOOTHS

DACC (DUBAI SOUTH) Code of Practice

Document Reference No.: DACC.DS.OPS.OHSE.OPS.04.PS

1.0 INTRODUCTION

- (a) This Code of Practice (CoP) is mandatory to all duty holders, entities or organizations operating within the Dubai South jurisdiction. This COP is designed to incorporate requirements set by Dubai Aviation City Corporation (DACC) Dubai South Occupational Health, Safety and Environment (OHSE) Department and Dubai South Management. If requirements of this document conflict with requirements set by another regulatory authority, duty holders / organizations are required to follow the more stringent requirement.
- (b) Operational facilities means the business operating in Dubai South such as Offices, Educational Institutions, Medical Facilities, Logistics and Warehouse Facilities, Factories, Recreational Facilities, Multi Store Apartments, Retail Facilities, etc. and all other facilities which are registered under Dubai South License.
- (c) A duty Holder is defined as;
 - (i) the person(s) who owns or is in control, through contact or tenancy, of non-domestic premises;
 - (ii) With regard to multiple tenanted premises, the duty holder shall be the person who owns or is in control of the building, including access and egress
 - (iii) All other persons shall cooperate with the with the duty holder to allow them to comply with their duties requirements under this COP.
- (d) The aim of this CoP is to ensure that all Businesses within the Jurisdiction of Dubai South are in full compliance with the requirements of DACC Dubai South and other local & federal authorities with regards to Spray painting process. Nothing in this COP shall relieve the duty holder from the compliance/requirements of any other local or federal regulatory agencies.
- (e) Due to the hazardous nature of flammable materials spraying, the DACC Dubai South OHSE Code and other regulatory codes have specified minimum requirements for their installation. Before new spraying projects are conducted, it is important to identify whether the scope of the operation requires a spraying space, booth or room and how the operation could impact neighboring spaces.
 - Spray painting, including electrostatic spray painting, is a process by which liquid paint is applied under pressure to an object. Spray painting may be carried out by hand or automatically. There are several methods used to atomize the paint for spraying:
 - Using a conventional air compressor air is driven across the mouth of a small outlet under pressure to draw liquid paint out of the container and produce an air-paint mist from the nozzle of the spray-gun





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- Airless spray painting the paint container is pressurized pushing the paint to the nozzle where it is atomized by the spray gun, or
- Electrostatic spray painting an electric pump drives the electrostatically charged liquid paint out of the nozzle which is then applied to the object which is earthed.

1.1 Definition

- A. Spray Booth- A mechanically ventilated appliance of varying dimensions and construction provided to enclose or accommodate a spraying operation and to confine and limit the escape of spray vapor and residue and to exhaust it safely.
- B. Spray Room- A room designed to accommodate spraying operations, constructed in accordance with the DACC-Dubai South regulations and separated from the remainder of the building by a minimum 2-hour fire barrier.
- C. Spraying Space- An area in which dangerous quantities of flammable vapors or combustible residues, dusts or deposits are present due to the operation of spraying processes.

2.0 COMPETENCE, TRAINING AND AWARENESS

- (a) Duty holders shall ensure that OHSE training complies with the requirements of:
 - (i) Dubai Aviation City Corporation (DACC) OHSERF Regulations 6 Competence, Training and Awareness;
- (b) Duty holder shall ensure that employees and other persons required to implement the requirements of this CoP or those who have a direct role in the management, supervision or monitoring of the requirement of this CoP are trained and competent to fully understand the requirements.
- (c) The requirements for specific training needs within the facility shall be identify, assess and in accordance with *Dubai Aviation City Corporation (DACC) OHSERF Regulation 6 Competence, Training and Awareness.*
- (d) Duty holder shall ensure that employees have received job specific training for paint spray booth works.
- (e) Duty holder shall maintain a record of the required training that contains the following:
 - i) Company, name and company employee ID number;
 - ii) Emirates ID number / Dubai South ID Pass;
 - iii) Topic / subject of training;
 - iv) Training provider;





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- v) Date of training; and
- vi) Person conducting the training
- (f) All training shall be conducted prior to an employee performing any spray painting operations and annually thereafter. Retraining shall also be conducted if an employee is not following safe work practices.

3.0 REQUIREMENTS

3.1 Roles and Responsibilities

3.1.1 **Duty holders / Employers**

Duty holders shall undertake their roles and responsibilities in accordance with the general requirements of;

"Dubai Aviation City Corporation (DACC) OHSERF – Regulation 5 – Leadership, Roles, Responsibility and Self-Regulation."

Duty holders shall ensure that all of the specific requirements listed below are complied with;

- To carry out a risk assessment for paint spray works as per *Dubai Aviation City Corporation* (DACC) OHSERF Regulation 2 Risk Management.
- ii) Duty holders has the primary duty to ensure, so far as is reasonably practicable, that workers and other persons are not exposed to health and safety risks arising from the business or undertaking.
- iii) To ensure that control measures are properly maintained, examined and tested at the appropriate intervals. (Note, this duty applies even if the control measures are physically maintained, inspected etc by a third party.)
- iv) To ensure that air monitoring is carried out to determine the airborne concentration of a substance or mixture at the workplace to which an exposure standard applies as per *Dubai Aviation City Corporation (DACC) OHSERF Regulation 10 Environmental Management* and *Dubai Aviation City Corporation (DACC) COP DACC.DS.OPS.OHSE.ENV.02.EG General Environmental Guidelines for Operations* if:
 - o The person is not certain on reasonable grounds whether or not the airborne concentration of the substance or mixture at the workplace exceeds the relevant exposure standard; or
 - o Monitoring is necessary to determine whether there is a risk to health.
- v) Duty holder must consult, so far as is reasonably practicable, with workers who carry out work for them who are (or are likely to be) directly affected by a work health and safety matter as per



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Dubai Aviation City Corporation (DACC) OHSERF – Regulation 7 – Communication, Consultation and Participation. (If the workers are represented by a health and safety representative, the consultation must involve that representative).

- vi) Duty holders must consult, co-operate and co-ordinate activities with all other persons who have a work health or safety duty in relation to the same matter, as far as reasonably practicable.
- vii) Duty holder must manage risks to health and safety associated with using, handling, generating or storing a hazardous chemical at the workplace.
- viii) To ensure that no person at the workplace is exposed to a substance or mixture in an airborne concentration that exceeds the exposure standard for the substance or mixture.
- ix) To ensure that employees who may need health surveillance are undergone health surveillance program as per *Dubai Aviation City Corporation (DACC) COP DACC.DS.OPS.OHSE.OPS.11.WA Safety and Health Requirements in Warehouse*
- x) To ensure that a person does not work with paint spray booths alone unless training has proven they are competent to do so in compliance with *Dubai Aviation City Corporation (DACC)*OHSERF Regulation 6 Competence, Training and Awareness
- xi) To ensure that any personal protective equipment provided is suitable for the person and the job, and is properly used and maintained as per *Dubai Aviation City Corporation (DACC) COP DACC.DS.OPS.OHSE.OST.10.PP Personal Protective Equipment*
- xii) To be prepared for any possible emergencies involving the hazardous substances in their area
- xiii) Ensure that required inspections and maintenance are performed as required
- xiv) Employers must make sure that all substances in the workplace are correctly labelled and that safety and health information (including a Material Safety Data Sheet MSDS), has been obtained from the supplier, manufacturer or importer

3.1.2 **Employees**

Employees' obligations include:

- i) Complying, as far as they are able, with all instructions given by their employer in accordance with relevant hazardous substances legislation; and
- ii) Reporting promptly to their employer anything that they become aware of that could affect the employer's compliance with relevant hazardous substances legislation as per *Dubai Aviation City Corporation (DACC) OHSERF Regulation 5 Leadership, Roles, Responsibility and Self-Regulation*





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- iii) Attend required training on spray paint operations and apply these lessons and safe work practices to their assigned job task
- iv) Ensure paint spray equipment remains in serviceable condition or removes equipment from service
- v) Employees shall not operate any piece of equipment that they are not familiar with, competent to operate and/or appropriately trained on its use
- vi) Wear appropriate PPE as per *Dubai Aviation City Corporation (DACC) COP DACC.DS.OPS.OHSE.OST.10.PP Personal Protective Equipment*

3.2 Safety Requirements

Spray painting operations / activities in the open area is not permitted. All spray painting operations shall be carried out in the fully covered and proper designed/constructed/approved painting booth/building.

3.2.1 **Booth Construction**

- i) Spray Booth shall be:
 - a) Substantially constructed of steel or other non-combustible material, securely and rigidly supported.
 - b) Designed to sweep air currents toward the exhaust outlet
- ii) The interior surfaces of spray booths shall be smooth and continuous without edges to prevent pocketing of residues and facilitate cleaning and washing without injury.
- iii) All electrical machine/equipment/lighting/fixtures etc. in the painting booth/building shall be of flame proof/ignition proof type.
- iv) Outlet from extraction/filtration system shall be taken out from the building, raised to minimum 3 meter from the roof ridge level and provided with sampling point with safe ladder/access.
- v) Spray booth should be fitted with filters, baffles or water curtains to arrest overspray.

Application Rate	Recommended Overspray Control	
Less than 2 Liters/hour	Water Curtains, Fibers and Baffles	
2 to 4 Liters/hour	Water Curtain, Fibres	
More than 4 Liters/hour	Water Curtain	

^{*}Baffle plates are acceptable only for small paint rates or where paint is applied electrostatically.







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- vi) Proper Spillage/drainage collection provision shall be provided
- vii) There is a minimum of 3 feet of clear space around all sides of the booth, allowing all parts of the booth to be cleaned
- viii) Electric motors that are driving the exhaust fans are kept outside the booth
- ix) All metal parts of spray booths are grounded
- x) The construction material shall be of fire proof material and acceptable & approved by relevant Authorities
- xi) The walls & flooring shall be of smooth finish to prevent pocketing of paint residue and easily cleanable
- xii) Areas in which spray painting or other allied processes are performed or carried out, shall be separated from other parts of the same building by compartment walls and floors having fire resistance of not less than 2 hours.
- xiii) Spray painting booths shall have built in vapor extraction system
- xiv) There shall be no open flame or spark producing equipment or operation in any spraying area within 6 meters unless separated by a non-combustible partition
- xv) Each sprat booth shall be separated from other operations by not less than 3 meters or by a greater distance or partition or wall as to reduce the danger from hazardous operations
- xvi) The floor surface of a spray booth shall be of non-combustible material of such character as to facilitate the safe cleaning and removal of residues

3.2.2 Spray paint Booth Operations

- a) General
- i) Where operations involving paints / solvents producing flammable vapors are carried out:
- b) Great care shall be taken when mixing, decanting and transferring paint/solvents. Naked flames and lighted cigarette shall not be permitted
- ii) All paint/solvent spillage should be mopped up without delay
- iii) Any rag or other combustible material contaminated with paint/solvents should be disposed of in a metal container with metal lid.



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- iv) The container should be emptied regularly; Spraying should be carried out in a properly designed booth with suitable ventilation
- v) Airflow into the booth must be adequate to maintain capture velocity and overcome opposing air currents
- vi) Signs stating "NO SMOKING" or "NO OPEN FLAMES" shall be conspicuously posted at all paint spray operation areas and paint storage rooms
- vii) Hot surfaces. Heating appliances, steam pipes, and any other hot surfaces shall not be located in areas where deposits of flammable or combustible residues may accumulate from spraying
- viii) Portable lamps shall not be used in any spray booth during spraying operations; if used during cleaning or repairing operations, they shall be of type approved for hazardous locations
- ix) Proper Spillage/drainage collection provision shall be provided
- x) The spray gun and the item to be painted shall be grounded to prevent static electricity from being created
- xi) Paint/blast booth/building shall be fitted with an emergency stop switch in inside area and when operated in case of emergency shall trigger an audio-visual alarm
- xii) To prevent the accumulation of explosive vapors, or the release of toxic vapors into the work area outside of the spray operation, freshly painted items shall be dried in the spray booth or spray area with its exhaust ventilation operating
- xiii) Restrict access for anyone with asthma, allergies, and respiratory illnesses
- xiv) Booth ventilation system shall remain on for (5) minutes after completing spraying operations to purge the chamber
- xv) Proper paint storage room for storing paints, thinner and solvent etc. shall be provided. Storage of Paint material more than quantity in-use for painting operations shall not be stored in the painting booth
- xvi) Illuminations of spraying areas shall be through glass panels or other transparent material
- c) Ventilation
- i) Spray areas should have mechanical ventilation capable of confining and removing vapors and mists to a safe location, as well as confining and controlling combustible residues, dusts, and deposits







- ii) Exhaust fans should be nonferrous, and the electrical motors should be explosion proof
- iii) Ducts should be constructed of steel or smooth and sealed concrete
- iv) The total air volume exhausted through a paint spray booth shall dilute vapors to at least 25 percent of the lower explosive limit (LEL) of the paint/solvent being sprayed
- v) Visible gauges or audible alarms or pressure activated devices shall be installed to indicate or ensure that the required air velocity is maintained
- vi) A pressure gauge shall be installed to show the pressure drop across the filters, and the gauge shall be marked to show the pressure drop at which the filters require cleaning or replacement
- vii) Where the air supply to a spray booth/room is filtered, the fan static pressure shall be calculated with the assumption that the filters are dirty and require either cleaning or replacement
- viii) Conduct continuous atmospheric monitoring / air sampling to ensure compliance to permissible LEL
- ix) The ventilation filters should be replaced based on the manufacturer's recommendations
- x) The electrical equipment, spray guns, and ventilation system should be interlocked so they cannot operate unless the ventilation fans are in operation
- d) Electrical
- i) All electrical fixtures, switches, and junction boxes inside the booth must be explosion proof and meet *Dubai Aviation City Corporation (DACC) COP DACC.DS.OPS.OHSE.OST.10.PP Electrical Safety at Work* and NFPA 70 Electrical Code standards
- ii) All equipment, including spray guns and booths should be earthed
- iii) There should be no additional electrical devices inside the booth such as portable fans, heaters, radios, portable electrical light fixtures, unapproved extension cords, etc
- iv) The use of anti-static or conductive footwear is recommended for powder coating activities
- v) There shall be no open flame or spark producing equipment in any spraying area or within 20 feet unless separated by an approved partition
- vi) Portable lamps shall not be used in any spray booth during spraying operations. If portable lamps are used during cleaning or repair operations the lamps must be approved for such locations as defined in NFPA 33 (Spray Application Using Flammable or Combustible Materials) or NFPA 70 (National Electric Codes)







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vii) Electrical equipment should be properly rated for use in flammable environments

e) Fire and Explosion

- i) The spray booth, exhaust plenums, exhaust ductwork, area behind filters, and mixing rooms must be protected with an approved automatic fire protection system in compliance with *Dubai Aviation City Corporation (DACC) COP DACC.DS.OPS.OHSE.FLS.01.FL Fire and Life Safety*
- ii) The construction material shall be of fire proof material and acceptable & approved by relevant Authority
- iii) Prevent fires by limiting sources of ignition, reducing overspray buildup and properly disposing of flammable waste
- iv) Sprinklers protecting spraying areas shall be protected from the accumulation of residue from spraying operations
- v) Sprinklers shall be permitted to be covered by cellophane bags having a thickness of 0.08mm or less or by thin paper bags and shall be replaced frequently so heavy deposits do not accumulate as per NFPA 33 (Spray Application Using Flammable or Combustible Materials)
- vi) Signs stating "NO SMOKING" or "NO OPEN FLAMES" shall be conspicuously posted at all paint spray operation areas and paint storage rooms
- vii) There should be no overspray or residue on the sprinkler heads
- viii) Portable fire extinguishers should be provided outside the booth
- ix) Automatic fire protection system is serviced and regularly checked to ensure that its extinguishing capacity and reliability are maintained
- x) The risk of fire or explosion from the following sources should be controlled before spraying commences:
 - a) Electrical sparks and arcs generated by the discharge of static electricity from poorly earthed equipment;
 - b) Electrical short-circuits;
 - c) Naked flames, such as burner flames, welding or cutting torches, matches, cigarette lighters, heaters and burning material; lit cigarettes and pipes
 - d) Portable, battery powered equipment eg. radios, mobile phones etc
 - e) Hot surfaces, such as operating internal combustion engines, frictional sparks, heated wires, glowing metals, overheated bearings and broken electric light bulbs that expose the hot filament.







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- f) Equipment that produces sparks, such as abrasive grinding wheels;
- g) Catalytic reactions, for example peroxide hardeners; and
- h) Products which can be self-heating or result in spontaneous combustion

f) Maintenance and Inspection

- i) Preventative maintenance program shall be implemented to cover periodic inspection and testing of all paint spray booth components and equipment
- ii) Spray painting equipment shall be inspected prior to use on each shift. Examination of the equipment shall include;
 - a) Visual inspection of equipment looking for worn equipment, damaged equipment. Integrity of joints / connections / hoses and any leaks
 - b) Personal protective equipment shall be inspected to ensure it is clean and is not damaged; and
 - c) If a local exhaust ventilation system is used, it shall be inspected to ensure it is working appropriately and filters are in good condition
- iii) Establish procedures whereby ducts are inspected for spray deposits at least yearly and more frequently if operations so dictate
- iv) The inspections shall be performed by competent personnel who have knowledge of the equipment and the inherent characteristics of the material(s) used
- v) Filter pads and rolls shall be inspected and changed to ensure proper airflow and protection of ducts from particulate overspray residue
- vi) Filters shall be cleaned or replaced whenever the air flow through the face of the booth falls below the velocity requirements
- vii) Pressure hoses and couplings shall be inspected at least once per month; Inspectors shall test the hose and couplings with the hose extended, using the "in-service maximum operating pressure." Any hose showing material deterioration, signs of leakage, or weakness in its hose or at a coupling shall be immediately removed from service, and either discarded or tagged with a "Do Not Use" sign until repairs are made
- viii) Ensure procedures for reporting and repairing faulty equipment are established
- ix) Procedures for scheduling maintenance should be documented. These may include:
 - a) the control measures which require servicing;
 - b) the nature of the servicing needed;
 - c) frequency of the servicing;





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- d) who is responsible for the servicing;
- e) how defects will be noted and corrected; and
- f) performance testing and evaluation

g) Cleaning

When undertaking cleaning of all paint spray booth components and equipment, ensure that:

- i) Hazardous waste procedures are in place-all cleaning material, filters and components that interact with flammable sprays must be disposed of as hazardous waste in compliance with *Dubai Aviation City Corporation (DACC) COP DACC.DS.OPS.OHSE.ENV.03.WM Waste Management*
- ii) spraying equipment is regularly cleaned and maintained in accordance with the manufacturer's instructions
- iii) Pressurized paint pots and pressurized spray guns are cleaned in accordance with manufacturer's instructions
- iv) Pressure from the gun and the paint pot should be released prior to cleaning
- v) The gun should never be cleaned by covering the nozzle with a cloth or other material held in the hand, as this method of cleaning can result in paint injection injuries when used with airless spray guns
- vi) The air filter medium is cleaned according to the manufacturer's instructions. Frequent cleaning or replacement of the filter medium is required to prevent deposits blocking air flow
- vii) The use of absorbent material, for example paper, cardboards, wooden platforms, should be avoided
- viii) Scrapers, spuds or other such tools used for cleaning purposes shall be of non-sparking material

h) Occupational Health

- i) Employees shall not be allowed to eat, drink or smoke in the vicinity of spray painting operations
- ii) No open containers of food or drink shall be stored within or close to spray painting operations where contaminants could enter the open containers
- iii) Respiratory protection shall be worn during spray operations. When an operator is in a booth downstream of the object being sprayed, an air-supplied respirator must be used by the employee in compliance with *Dubai Aviation City Corporation (DACC) COP DACC.DS.OPS.OHSE.OST.10.PP Personal Protective Equipment*





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- iv) Changing rooms and showers shall be provided at the worksite for employees working with spray painting operations as per the requirements of *Dubai Aviation City Corporation (DACC) COP DACC.DS.OPS.OHSE.OST.06.DM General Workplace Amenities*
- v) Duty holders shall have a first aid program in compliance with *Dubai Aviation City Corporation* (DACC) COP DACC.DS.OPS.OHSE.WRW.01.WA First Aid Requirements
- vi) Duty holders shall have a medical surveillance program in compliance with *Dubai Aviation City Corporation (DACC) COP DACC.DS.OPS.OHSE.WRH.03.MS Occupational Health Screening and Medical Surveillance*

3.3 Emergency Management

Duty holders shall ensure that emergency arrangements comply with the requirements of:

Dubai Aviation City Corporation (DACC) Regulation 13 – Emergency Management

Emergency plans shall be established to deal with emergencies if a leak, spill or uncontrolled release of a hazardous spray painting substance occurs. Adequate fire-fighting, safety, and spill control equipment shall be readily available. Personnel shall be trained to handle emergency procedures. In the case of bulk storage of corrosive chemicals, adequate supplies of neutralizing agents shall be kept on hand. The contingency plan should also be developed so as to provide for coordination with the Authority and other government agencies.

An emergency eyewash station shall be located in the immediate vicinity of each paint spray operation and the hazardous material storage area. The eyewash station must be capable of providing 15 minutes of continuous flushing with potable water. Emergency eyewash stations shall be kept clear and unobstructed.

4.0 RECORD KEEPING

Duty holder shall ensure record keeping in accordance with the requirements of *Dubai Aviation City Corporation (DACC)* – *Regulation 8* – *Document Control and Record Management* In all documents relating to spray painting the correct technical name of the goods shall be used and the correct description given in accordance with the UN goods classification.

5.0 REFERENCE

NO.	DOCUMENT NAME	DOCUMENT NO.
1	Risk Management	DACC OHSERF – Regulation 2
2	Leadership, Roles, Responsibilities and Self-Regulations	DACC OHSERF – Regulation 5
3	Competence, Training and Awareness	DACC OHSERF – Regulation 6
4	Document Control and Record Management	DACC OHSERF – Regulation 8
5	Emergency Management	DACC OHSERF – Regulation 13







6	Personal Protective Equipment	COP - DACC.DS.OPS.OHSE.OST.10.PP
7	Control of substances hazardous to health and Dangerous Goods	COP – DACC.DS.OPS.OHSE.CGF.01SH
8	Electrical Safety at work	COP – DACC.DS.OPS.OHSE.OST.02.ES
9	Conducting EIA Study	COP – DACC.DS.OPS.OHSE.ENV.01.EI
10	Occupational Health screening and Medical Surveillance	COP – DACC.DS.OPS.OHSE.WRH.03.MS
11	General Workplace Amenities	COP - DACC.DS.OPS.OHSE.WRW.01.WA
12	First Aid Requirement	COP - DACC DS.OPS.OHSE.OST.05.FA
13	Waste Management	COP - DACC.DS.OPS.OHSE.ENV.03.WM
14	General Environmental Guidelines for Operations	COP - DACC.DS.OPS.OHSE.ENV.02.EG
15	Fire and Life Safety	COP – DACC.DS.OPS.OHSE.FLS.01.FL
16	Emergency Preparedness	COP – DACC.DS.OPS.OHSE.OST.03.EP
17	Federal Regulation for Handling Hazardous Materials, Hazardous Wastes and Medical Wastes	Issued by Cabinet Decree No. 37 of 2001
18	Code of Practice for the Management of Dangerous Goods in the Emirate of Dubai	Dubai Municipality
19	Environment Protection Regulations in Dubai	Local Order No. 61/1991
20	Defining Works that are Hazardous or in which it is Permissible to Reduce the Legally Decided Working Hours	Ministerial Resolution No. 4/1 of 1981
21	NFPA – National Fire Protection Association	NFPA 33
22	NFPA - National Fire Protection Association	NFPA 70