



## Health & Safety Department (Environmental Health Section )

Document Title	<b>Technical Guidelines for Compliance of Educational Institutions</b>
Document Code	DM-HSD-GU15-EIC2
Version #	V5
Issue Date	9 <sup>th</sup> December 2024
Superseded Issue Date	12 <sup>th</sup> March 2023



 حكومة دبي GOVERNMENT OF DUBAI	<b>Organization Unit:</b>	<b>Health &amp; Safety Department</b>	<b>الوحدة التنظيمية:</b>	 بلدية دبي Dubai Municipality
	<b>Document title:</b>	Technical Guidelines for Compliance of Educational Institutions	<b>اسم الوثيقة:</b>	
	<b>Doc Ref:</b>	DM-HSD-GU15-EIC	<b>رمز الوثيقة:</b>	

### Document History Log

Any modification to the document must be reviewed and approved as per the corporate policies and procedures of document control

Version #	Date	Prepared/reviewed by	Modifications summary
5	9 <sup>th</sup> December 2024	Environmental Health Section	<ul style="list-style-type: none"> <li>Adding the new logo of both Dubai Government &amp; Dubai Municipality</li> <li>Comprehensive update of the contents of the guideline.</li> <li>Modification of the name of the guideline</li> </ul>



Issue Date: 9 <sup>th</sup> December 2024	بيانات مفتوحة / OPEN DATA	Version # (5)
Superseded Issue Date: 12 <sup>th</sup> March 2023		Page 2 of 25

	Organization Unit:	<b>Health &amp; Safety Department</b>	الوحدة التنظيمية:	
	Document title:	Technical Guidelines for Compliance of Educational Institutions	اسم الوثيقة:	
	Doc Ref:	DM-HSD-GU15-EIC	رمز الوثيقة:	



## Table of Content

<b>1-Introduction</b>	5
<b>2- Purpose</b>	5
<b>3- Objectives of the Guideline</b>	5
<b>4- Laws and Legislation</b>	6
<b>5- Scope of Work</b>	6
<b>6-Terms and Definitions</b>	6
<b>7- General Requirements</b>	9
7-1 Building Requirements	9
<b>8- Public Health and Hygiene</b>	9
8-1 General Hygiene	9
8-2 Public Health	10
<b>9- General Safety</b>	11
9-1 Safety in Public Facilities of the Establishment	11
9-2 Safety in the Classrooms of the Establishment	12
9-3 Safety in Laboratories	13
9-4 Safety in the Outdoor and Indoor Play Area	13
9-5 Requirements for Children's Toys in the Nursery	14
9-6 Elevators Safety	14
9-7 Safe Storing Requirements:	15
9-8 Safety in Swimming Pool Area	15
<b>10-Consumer Products</b>	18

Issue Date: 9 <sup>th</sup> December 2024	بيانات مفتوحة / OPEN DATA	Version # (5)
Superseded Issue Date: 12 <sup>th</sup> March 2023		Page 3 of 25

	<b>Organization Unit:</b>	<b>Health &amp; Safety Department</b>	<b>الوحدة التنظيمية:</b>	
	<b>Document title:</b>	Technical Guidelines for Compliance of Educational Institutions	<b>اسم الوثيقة:</b>	
	<b>Doc Ref:</b>	DM-HSD-GU15-EIC	<b>رمز الوثيقة:</b>	

10-1 Consumer Product Requirements.....	18
10-2 School Uniform.....	18
<b>11- Requirements for Controlling the Facility's Operational Noise Level</b> .....	19
<b>12- Water Quality</b> .....	19
12-1 Water Systems Quality in Educational Institutions.....	19
<b>13- Indoor Air Quality</b> .....	22
<b>14-Reference</b> .....	25

	<b>Organization Unit:</b>	<b>Health &amp; Safety Department</b>	<b>الوحدة التنظيمية:</b>	
	<b>Document title:</b>	Technical Guidelines for Compliance of Educational Institutions	<b>اسم الوثيقة:</b>	
	<b>Doc Ref:</b>	DM-HSD-GU15-EIC	<b>رمز الوثيقة:</b>	

## 1-Introduction

Dubai Municipality has prepared this guideline in accordance with the transparency and governance practices followed in the Emirate of Dubai and is based on Local Order No. 11 of 2003 regarding Public Health and Community Safety in the Emirate of Dubai.

The guideline for educational institutions reflects the best practices followed in the Emirate of Dubai in addition to providing a flexible approach to ensure proactive prevention of public health and enhance compliance with health and safety requirements. The elements of built environment health include public health, public safety, indoor air quality, water quality, consumer product safety and noise pollution in built environments to achieve Dubai Municipality's mission in planning, managing and ensuring the sustainability of the city by providing pioneering municipal services for the happiness and well-being of people in a way that supports the achievement of Dubai Municipality's vision.



## 2- Purpose

This guideline has been prepared to ensure and enhance the commitment of educational institutions, including schools, universities, nurseries and related institutions, to the regulations and requirements approved by Dubai Municipality, and to achieve a high level of health and safety in the built environment and enable them to monitor the extent of their compliance.

## 3- Objectives of the Guideline

- Ensure compliance with unified environmental health requirements in educational institutions in the Emirate of Dubai to achieve proactive prevention of public health.
- Educating owners of relevant educational institutions, workers, and the responsible person for environmental health risk.
- Ensure business continuity in line with implemented regulations enforced in the Emirate of Dubai.
- Increase public awareness of environmental health in the built environment.

Issue Date: 9 <sup>th</sup> December 2024	OPEN DATA / بيانات مفتوحة	Version # (5)
Superseded Issue Date: 12 <sup>th</sup> March 2023		Page 5 of 25

	<b>Organization Unit:</b>	<b>Health &amp; Safety Department</b>	<b>الوحدة التنظيمية:</b>	
	<b>Document title:</b>	Technical Guidelines for Compliance of Educational Institutions	<b>اسم الوثيقة:</b>	
	<b>Doc Ref:</b>	DM-HSD-GU15-EIC	<b>رمز الوثيقة:</b>	

## 4- Laws and Legislation

- Local Order No. (11) of 2003 Concerning Public Health and Community Safety in the Emirate of Dubai.
- Administrative order No. (30) Of 2007 concerning the issuance of the Executive Regulation of Local Order No. (11) of 2003 Concerning Public Health and Safety of the Society in the Emirate of Dubai.



## 5- Scope of Work

This guideline applies to educational institutions including private and government schools, universities, colleges, kindergartens, nurseries and early learning centers in the Emirate of Dubai.

## 6-Terms and Definitions



Term	Definition
<b>Public Health</b>	The science of preventing disease and improving the health of individuals and communities through organized and sustained collective and community efforts aimed at creating the conditions that enable individuals to maintain their health.
<b>Environmental Health</b>	Environmental health includes all the external physical, chemical and biological factors around the individual, and all related factors that influence his behaviors, and includes the process of evaluating and controlling those environmental factors that can affect health, with the aim of preventing disease and creating healthy environments.
<b>Built Environment Health</b>	Ensuring that physical, chemical, biological and other factors within the built environment do not cause any harm to human health
<b>Withdrawal</b>	The action taken by the municipality, the food-related establishment, or the consumer product-related establishment to prevent the circulation

Issue Date: 9 <sup>th</sup> December 2024	بيانات مفتوحة / OPEN DATA	Version # (5)
Superseded Issue Date: 12 <sup>th</sup> March 2023		Page 6 of 25

 حكومة دبي GOVERNMENT OF DUBAI	<b>Organization Unit:</b>	<b>Health &amp; Safety Department</b>	<b>الوحدة التنظيمية:</b>	 بلدية دبي Dubai Municipality
	<b>Document title:</b>	Technical Guidelines for Compliance of Educational Institutions	<b>اسم الوثيقة:</b>	
	<b>Doc Ref:</b>	DM-HSD-GU15-EIC	<b>رمز الوثيقة:</b>	

Term	Definition
	of any food or consumer product in the emirate, which has been proven to be unfit for human consumption or unsafe.
<b>Contamination</b>	Impurities or components present in a sample by exposure to or addition of a toxic or contaminant in the product.
<b>Non-Drinking Water</b>	Water that is not potable, but may be used for other purposes depending on its quality (Dubai Building Code H.2.1.2).
<b>Legionella Bacteria</b>	Legionella bacteria are the cause of Legionnaires' disease, a milder form of Pontiac fever. Legionella infects the lungs, generally through inhalation of contaminated droplets. The bacteria thrive in water between 20 and 45 degrees Celsius and are spread by water aerosols.
<b>Stagnant Water Pipes</b>	Part of the water pipe system leading to a fixture where water flows through it only intermittently when there is drainage being drawn from the fixture, which leads to the potential for stagnation in this part.
<b>Noise</b>	an unwanted sound
<b>Microorganism (microbes)</b>	Tiny living organisms that are found all around us and are too small to be seen by the naked eye. Some microbes make us sick; others are important for our health. The most common types are bacteria, viruses, and fungi.
<b>Total Bacterial Count (T.B.C.)</b>	A term stands for total bacterial count used in water sample test results.
<b>Indoor Air Quality (IAQ)</b>	It refers to the quality of air inside buildings and structures and is affected by various factors, including the presence of pollutants, temperature, humidity, and ventilation. Poor indoor air quality can have negative effects on the health and comfort of building occupants.
<b>Mechanical Ventilation</b>	It is the Mechanical flow of outside air by fans into and/or out of a building.
<b>Natural Ventilation</b>	Ventilation provided by thermal effect, wind effect, or air diffusion effect through windows, doors, and any other openings in a building.



Issue Date: 9 <sup>th</sup> December 2024	بيانات مفتوحة / OPEN DATA	Version # (5)
Superseded Issue Date: 12 <sup>th</sup> March 2023		Page 7 of 25

 حكومة دبي GOVERNMENT OF DUBAI	Organization Unit:	<b>Health &amp; Safety Department</b>	الوحدة التنظيمية:	 بلدية دبي Dubai Municipality
	Document title:	Technical Guidelines for Compliance of Educational Institutions	اسم الوثيقة:	
	Doc Ref:	DM-HSD-GU15-EIC	رمز الوثيقة:	

Term	Definition
<b>H.V.A.C</b>	Abbreviation for Heating, Ventilation and Air Conditioning Systems – Equipment, distribution systems and outlets that individually or collectively provide heating, ventilation and air conditioning to a building or part thereof.
<b>M.V.A.C.</b>	Abbreviation for Mechanical Ventilation and Air Conditioning Systems – Refers to a fresh air handling unit through which indoor pollutant levels are controlled.
<b>CFM/Sqr Feet</b>	Abbreviation for cubic feet per minute/square foot
<b>Minimum Exposure (Threshold) - Ceiling (TLV-C)</b>	The threshold value ceiling (TLV-C) is a guideline to help control health risks. It is the maximum level of exposure to a chemical or pollutant day after day without experiencing any harmful effects and this level should not be exceeded at any time.
<b>G.S.O</b>	Abbreviation for the Gulf Cooperation Council Standardization Organization.
<b>Consumer Product</b>	Any product that can be consumed or used by humans for any purpose, including but not limited to medicines, cosmetics and personal care products, perfumes, health supplements, cleaning products, antibacterials, children's toys, textiles, food contact materials, health care products, air fresheners and any other product that the municipality or the authority determines as a consumer product.
<b>Montaji</b>	It is a system for evaluating and registering consumer products and food contact materials after ensuring their compliance with health and safety specifications and conditions, before importing or manufacturing any consumer product for the purpose of trading in the local market in the Emirate of Dubai.
<b>Children's Toys</b>	Product intended for direct or indirect use as a toy for children under 14 years of age.
<b>Hazardous Waste</b>	Waste materials that can cause significant harm to humans and/or property and/or the environment due to their inherent hazardous properties. Hazardous wastes are in the form of solid, liquid, sludge, gas, or any combination of the above.

Issue Date: 9 <sup>th</sup> December 2024	OPEN DATA / بيانات مفتوحة	Version # (5)
Superseded Issue Date: 12 <sup>th</sup> March 2023		Page 8 of 25



	Organization Unit:	Health & Safety Department	الوحدة التنظيمية:	
	Document title:	Technical Guidelines for Compliance of Educational Institutions	اسم الوثيقة:	
	Doc Ref:	DM-HSD-GU15-EIC	رمز الوثيقة:	

Term	Definition
<b>Lighting Power Density</b>	Electrical power consumed by the lighting installation per unit floor area (W/m <sup>2</sup> ) or unit length, linear meter (W/lm) of an illuminated space.

## 7- General Requirements

1. The activity must be practiced after obtaining a license from the competent authorities in the emirate.
2. The institution's activities, usage, and practices must strictly comply with the terms and conditions outlined in the issued license.

### 7-1 Building Requirements



1. Providing a building plan approved by the Building Permit Department at the Building Regulation & Permits Agency Dubai Municipality.
2. The educational institution must ensure that no modifications are made to the building without obtaining prior approval from the competent authority responsible for issuing building permits
3. Periodic maintenance must be carried out for all facilities of the educational institution, taking into account not to carry out any maintenance operations during the school day.

## 8- Public Health and Hygiene

### 8-1 General Hygiene

1. Maintain regular cleaning and disinfection of all facilities and areas of the institution and keep a record of periodic cleaning and disinfection operations of the facilities on site.
2. Frequently touched surfaces such as door handles, etc. must be cleaned and disinfected frequently.
3. Hand washing basins must be provided with liquid soap and hand drying tools.
4. Maintain personal hygiene of workers in the institution.
5. Diaper changing table is suitable and easy to clean and disinfect.

Issue Date: 9 <sup>th</sup> December 2024	OPEN DATA / بيانات مفتوحة	Version # (5)
Superseded Issue Date: 12 <sup>th</sup> March 2023		Page 9 of 25

	<b>Organization Unit:</b>	<b>Health &amp; Safety Department</b>	<b>الوحدة التنظيمية:</b>	
	<b>Document title:</b>	Technical Guidelines for Compliance of Educational Institutions	<b>اسم الوثيقة:</b>	
	<b>Doc Ref:</b>	DM-HSD-GU15-EIC	<b>رمز الوثيقة:</b>	

### **Waste Disposal**

1. Provide a dedicated room to collect waste from the school building before disposal.
2. Provide a contract with a company approved by Dubai Municipality to transport and dispose of general and hazardous waste.
3. The waste room must be clean and suitable if it exists in the institution.
4. Provide suitable containers equipped with covers and are in sufficient numbers.
5. Dispose of general and hazardous waste in a proper and periodic manner.

### **Sewage**

1. Dispose of wastewater in a healthy and proper manner and do not leave sewers exposed.
2. Maintain and periodically inspect the integrity of the sewage network.

## ***8-2 Public Health***

### **Occupational Health Certificates**

1. Provide an updated list of all employees in the institution.
2. Provide a valid occupational health certificate for all nursery and kindergarten teachers, their assistants and physical education teachers or in accordance with Dubai Health requirements.

### **Insect, rodent and pest control**

1. Provide a contract with a company approved by Dubai Municipality to control insects, rodents and pests.
2. The number of visits must be at least once a month in accordance with the requirements of the Public Health Services Department.
3. Control must be immediate in the event of insects, rodents or pests' infestation in the institution



### **Smoking**

1. Smoking or using tobacco in any form is prohibited in public and private educational institutions.
2. Not selling tobacco or its products within the campus and buildings of educational institutions.
3. Provide no smoking signs.

### **Sanitary facilities**

1. Children's restrooms in nurseries must comply with the ranges shown in Table No. (1) below:

Issue Date: 9 <sup>th</sup> December 2024	OPEN DATA / بيانات مفتوحة	Version # (5)
Superseded Issue Date: 12 <sup>th</sup> March 2023		Page 10 of 25

 <b>حكومة دبي</b> GOVERNMENT OF DUBAI	<b>Organization Unit:</b>	<b>Health &amp; Safety Department</b>	<b>الوحدة التنظيمية:</b>	 <b>بلدية دبي</b> Dubai Municipality
	<b>Document title:</b>	Technical Guidelines for Compliance of Educational Institutions	<b>اسم الوثيقة:</b>	
	<b>Doc Ref:</b>	DM-HSD-GU15-EIC	<b>رمز الوثيقة:</b>	

Age ranges (years)	Water closet center line (mm)	Toilet seat height (mm)	Grab bar height (mm)
3 to 4	300	280 to 300	450 to 500
5 to 8	300 to 380	300 to 380	500 to 630
9 to 12	380 to 450	380 to 430	630 to 680

2. The number of health facilities must be adhered to according to the table No. (2) below:



Category	Washbasins	Toilets
	Female/ Male	Female/ Male
<b>Schools (students)</b>	1 per one class, sized for children use	1per one class, sized for children use
<b>Schools (teachers and staff)</b>	1per 10 classes with minimum 2 for each gender	1per 10 classes with minimum 2 for each gender
<b>Kindergarten (students)</b>	1per one class with size suitable to children	1per one class with size suitable to children
<b>Kindergarten (staff and teachers)</b>	1per 10 classes with minimum 2 for each gender	1per 10 classes with minimum 2 for each gender
<b>Nurseries (children)</b>	1per 1 baby room	1per 1 baby room
<b>Nurseries (teachers and staff)</b>	1per 10 rooms with minimum 2 for each gender	1per 10 rooms with minimum 2 for each gender

## 9- General Safety

### 9-1 Safety in Public Facilities of the Establishment

1. The presence of a valid certificate of compliance with fire prevention requirements from the General Directorate of Civil Defense in Dubai.
2. The presence of a first aid certificate for kindergarten teachers and their assistants in accordance to the requirements of the Knowledge and Human Development Authority in Dubai.
3. Electrical plugs and connections must be in good condition and in the appropriate place and ensure that they are covered safely.
4. Permanent or temporary residence is not permitted in educational institutions.

Issue Date: 9 <sup>th</sup> December 2024	OPEN DATA / بيانات مفتوحة	Version # (5)
Superseded Issue Date: 12 <sup>th</sup> March 2023		Page 11 of 25

 حكومة دبي GOVERNMENT OF DUBAI	<b>Organization Unit:</b>	<b>Health &amp; Safety Department</b>	<b>الوحدة التنظيمية:</b>	 بلدية دبي Dubai Municipality
	<b>Document title:</b>	Technical Guidelines for Compliance of Educational Institutions	<b>اسم الوثيقة:</b>	
	<b>Doc Ref:</b>	DM-HSD-GU15-EIC	<b>رمز الوثيقة:</b>	

5. Floors must be non-slippery, and warning signs must be prominently displayed during floor cleaning activities.
6. Window barriers must be provided on the upper floors of the school to avoid falling accidents.
7. Pets and other animals are not permitted or kept in educational institutions.



### ***9-2 Safety in the Classrooms of the Establishment***

1. Classrooms in nurseries, kindergartens and first grade students must be on the ground floor.
2. Lighting in classrooms must be adequate, including laboratories.
  - Lighting power densities - internal (Table No. 3)

Occupancy	Maximum average lighting power density across total building area (W/m <sup>2</sup> )
Educational facilities	7.8

3. space of not less than (1) square meter must be allocated for each student inside the classroom and the number of students in the class must not exceed (25) students in kindergarten and not more than (30) students in other stages.
4. The distance between the front row and the wall (blackboard) must not be less than (1.5) meters.
5. Furniture and cabinets must be in good condition and secure.
6. Furniture and equipment must not contain sharp edges, protruding objects or flammable surfaces.
7. Provide means to protect children's fingers when using the door.
8. Carpets must not be installed in educational facilities, including classrooms, according to the Dubai Building Code.
9. The distance between beds in nursery rooms must not be less than 1 meter.
10. Beds must be equipped with barriers on the edges and their sides must be shock-absorbent.
11. Regular monitoring of infants at all the times should be in place.
12. Providing sufficient number of qualified supervisors, in proportion to the number of children.

Issue Date: 9 <sup>th</sup> December 2024	OPEN DATA / بيانات مفتوحة	Version # (5)
Superseded Issue Date: 12 <sup>th</sup> March 2023		Page 12 of 25

	<b>Organization Unit:</b>	<b>Health &amp; Safety Department</b>	<b>الوحدة التنظيمية:</b>	
	<b>Document title:</b>	Technical Guidelines for Compliance of Educational Institutions	<b>اسم الوثيقة:</b>	
	<b>Doc Ref:</b>	DM-HSD-GU15-EIC	<b>رمز الوثيقة:</b>	



### 9-3 Safety in Laboratories

1. The number of students must be in proportionate to the laboratory space.
2. Provide a Fume hood for use when preparing or using volatile materials, hazardous gases, or those with an unpleasant odor.
3. Provide suitable cabinets for storing chemicals.
4. Each laboratory must be equipped with a mobile transport cart to transport devices and tools from the preparation room to the laboratory and vice versa.
5. Provide primary safety equipment such as a first aid box and emergency shower and keep them in a visible place and perform periodic maintenance on them to ensure their validity.
6. Provide a sand bucket for use in the event of chemical spills.
7. Periodically maintain and clean devices.
8. Monitor devices during operation and turn them off after use.
9. Provide a material safety data sheet (MSDS) and adhere to the instructions shown therein.
10. Provide appropriate personal protective equipment for students and teachers.
11. Laboratories must be away from classroom areas.
12. Chemical laboratories must be equipped with adequate means of suction and air/gas disposal systems.

### 9-4 Safety in the Outdoor and Indoor Play Area

1. The outdoor play area must be shaded and the playground area must be in proportionate to the number of children (an area of not less than 0.6 square meters per child).
2. The play area must be appropriate for the specified age group (the size and design of the furniture and toys are appropriate for the age group of the children).
3. Provide a safe fence in the area surrounding the games.
4. The floors under the children's play equipment must be shock-absorbent.
5. All poles and sharp edges must be surrounded by shock-absorbent material.
6. Play area equipment's must be in good condition and free of defects.
7. The sandpits (if any) must be clean and safe for children.
8. Conduct technical inspections of the games and related equipment, including but not limited to (games consisting of 2 floors or more / climbing wall with a height of more than 2 meters / trampoline) at least once a year by one of the companies accredited by the Emirates International Accreditation Centre (EIAC).
9. Provide periodic maintenance and inspection of the play area equipment's.

Issue Date: 9 <sup>th</sup> December 2024	OPEN DATA / بيانات مفتوحة	Version # (5)
Superseded Issue Date: 12 <sup>th</sup> March 2023		Page 13 of 25

	<b>Organization Unit:</b>	<b>Health &amp; Safety Department</b>	<b>الوحدة التنظيمية:</b>	
	<b>Document title:</b>	Technical Guidelines for Compliance of Educational Institutions	<b>اسم الوثيقة:</b>	
	<b>Doc Ref:</b>	DM-HSD-GU15-EIC	<b>رمز الوثيقة:</b>	

10. Provide constant supervision and oversight in the play area to ensure compliance with public safety requirements and avoid accidents and injuries.
11. The first aid box should be in an easily accessible place.
12. Provide the necessary and appropriate lighting and ventilation for the indoor play area.
13. Close the windows in the indoor play hall properly.
14. Periodic cleaning and disinfection of all Play area equipment's and maintaining record on site.

For more information, please refer to the Technical Guidelines (02) for Safety in Play Areas and Events Areas



### ***9-5 Requirements for Children's Toys in the Nursery***

1. Physical conformity of the child's toy and its accessories according to the visual examination.
2. It is prohibited to use the following toys:
  - ✓ toys with small magnetic parts or having strong magnets
  - ✓ Contains glass pieces that are not essential or functional
  - ✓ Contains small, detachable parts that can be swallowed.
  - ✓ Stretching or expandable toys that increase more than 50% of the original size.
  - ✓ Contain sharp edges / non-functional sharp edges.
  - ✓ Contains fur or hair that is not well fixed.
  - ✓ Laser toys or games which are classified as not permitted.
  - ✓ Causes a choking hazard for children under the age of three.
  - ✓ It contains a flexible part with length that can causes a risk of chocking in children.
3. Provide the Gulf Conformity Symbol - GSO - in compliance with the specifications. GCC BD-131704-01GCC -2015
4. Provides the explanatory symbol - Not suitable for children under 3 years - Complies with the specifications.

### ***9-6 Elevators Safety***

1. Providing an elevator safety certificate and maintenance report from a company accredited by the Emirates International Accreditation Centre.
2. Proper use of elevators and adherence to instructions.
3. Securing the moving parts of the elevator transmission.

Issue Date: 9 <sup>th</sup> December 2024	OPEN DATA / بيانات مفتوحة	Version # (5)
Superseded Issue Date: 12 <sup>th</sup> March 2023		Page 14 of 25

	<b>Organization Unit:</b>	<b>Health &amp; Safety Department</b>	<b>الوحدة التنظيمية:</b>	
	<b>Document title:</b>	Technical Guidelines for Compliance of Educational Institutions	<b>اسم الوثيقة:</b>	
	<b>Doc Ref:</b>	DM-HSD-GU15-EIC	<b>رمز الوثيقة:</b>	

### 9-7 Safe Storing Requirements:

1. Providing sufficient and appropriate lighting in the storage room.
2. The storage area must be clean.
3. Storing materials appropriately and at a height of no less than 20 cm above the ground, no less than 50 cm below the ceiling, and 30 cm away from the wall.



### 9-8 Safety in Swimming Pool Area

1. The presence of a plan approved by Dubai Municipality for swimming pools and not making any modifications to the swimming pool without prior approval from the municipality.
2. The swimming pool area must have authorization /control/ lock system and ensure that it is not used in the absence of a lifeguard or if the pool is temporarily closed.
3. The presence of a lifeguard with a certificate from a training center recognized by the Emirates International Accreditation Centre and a first aid certificate from a company approved by the Dubai Corporation for Ambulance Services.
4. The number of lifeguards around the swimming area will be according to the size of the pool as shown in Table No. (4) below.

Pool Size (m)	Area (m <sup>2</sup> )	Minimum No. of Lifeguards	Minimum No. of Lifeguards for busy periods
20 x 8.5	≤170	1	2
25 x 8.5	212	1	2
25 x 10	250	1	2
25 x 12.5	312	2	2
33.3 x 12.5	416	2	3
50 x 20	1,000	4	6

5. The lifeguard must be in a position where he can monitor every part of the pool 100% during use and can apply the (10:20) rule where 10 seconds to inspect the entire pool and 20 seconds to intervene.
6. Place appropriate barriers to separate swimming pools for children and adults.
7. The floors around the pool must be non-slippery to avoid accidents.
8. Swimming pools must be equipped with toilets and changing rooms in proportion to the area of the pool.

Issue Date: 9 <sup>th</sup> December 2024	بيانات مفتوحة / OPEN DATA	Version # (5)
Superseded Issue Date: 12 <sup>th</sup> March 2023		Page 15 of 25

	Organization Unit:	Health & Safety Department	الوحدة التنظيمية:	
	Document title:	Technical Guidelines for Compliance of Educational Institutions	اسم الوثيقة:	
	Doc Ref:	DM-HSD-GU15-EIC	رمز الوثيقة:	

#### **Safety and rescue equipment that must be available in the swimming pool area:**

1. Provide a sufficient number of saving rings so that they are in a nearby and easily accessible area and are approximately 1.33 meters high from the ground.
2. Provide rescue equipment (rescue hook, saving rings, etc.) so that the rescuer can easily reach them within 5 seconds when needed and are distributed on all sides of the pool.
3. Provide a general guidance board in both languages (Arabic and English) explaining the rules that must be adhered to while using the swimming pool.
4. Provide signs prohibiting diving or jumping in the swimming pool.
5. Provide signs indicating the depth of the pool (especially in shallow and deep areas).
6. Provide a CPR device and a first aid box in a suitable and easily accessible location.

#### **Safety in the swimming pool pump room**

7. Ensure that all employees are provided with appropriate personal protective equipment (PPE).
8. Provide a suitable storage for chemicals used in the pool.
9. Provide adequate ventilation for pump rooms.
10. Ensure that pump rooms are closed/locked when not needed.
11. Ensure that the instructions in the Material Safety Data Sheet (MSDS) are followed.

#### **Hazards associated with temperature extremes**



1. Water temperatures in swimming pools must be between 26°C - 30°C.

#### **Water quality in swimming pools**

1. Pool water should be clean.
2. Provide devices to filter and purify pool water.
3. Provide an automatic disinfectant injection system to reduce the growth and reproduction of bacteria in the swimming pool.
4. Disinfectant levels should be maintained within the permissible limits in the pool water at all times and records should be kept according to Table No. (5) below:

Issue Date: 9 <sup>th</sup> December 2024	OPEN DATA / بيانات مفتوحة	Version # (5)
Superseded Issue Date: 12 <sup>th</sup> March 2023		Page 16 of 25





	Organization Unit:	<b>Health &amp; Safety Department</b>	الوحدة التنظيمية:	
	Document title:	Technical Guidelines for Compliance of Educational Institutions	اسم الوثيقة:	
	Doc Ref:	DM-HSD-GU15-EIC	رمز الوثيقة:	

**Table No. (5): Standard quality criteria for swimming pool water**

Type of Pool	Disinfectant	Pool Water Temp.	pH	Free Chlorine
All Swimming pools	Chlorine	≤ 26°C	7.2 - 7.6	Min. 1 - 2 mg/l <sup>3</sup>
		26°C - 30°C	7.2 - 7.6	Min. 2 – 3 mg/l <sup>3</sup>
	Disinfectant	Pool Water Temp.	pH	Bromine
	Bromine	≤ 26°C	7.2 - 7.8	2 mg/l
		> 26°C	7.2 - 7.8	4 mg/l

**All required tests for swimming pools must be carried out as shown in Table No. (6) below:**

Frequency	Parameter	Acceptable Range
<b>Daily</b>	pH	7.4-7.6
	Free Residual Chlorine	1-2 ppm
	Free Residual Bromine	2-4ppm
<b>Every Two Weeks (Biweekly)</b>	pH	7.4-7.6
	Free Residual Chlorine	1-2 ppm
	Free Residual Bromine	2-4ppm
	Total Alkalinity	60-200 mg/L
	Cyanuric Acid	30-50 mg/L
<b>Every Two Months (Bimonthly)</b>	total coliforms	0 mpn/100 ml
	Fecal coliforms	0 mpn/100 ml
	Heterotrophic plate count	1000 cfu/ml
	Pseudomonas Aeruginosa	0 cfu/100 ml
	Fecal streptococci	0 cfu/100 ml

	<b>Organization Unit:</b>	<b>Health &amp; Safety Department</b>	<b>الوحدة التنظيمية:</b>	
	<b>Document title:</b>	Technical Guidelines for Compliance of Educational Institutions	<b>اسم الوثيقة:</b>	
	<b>Doc Ref:</b>	DM-HSD-GU15-EIC	<b>رمز الوثيقة:</b>	

## 10-Consumer Products

### 10-1 Consumer Product Requirements



1. Cleaning, sterilization and disinfection materials used in educational institutions must be approved by the competent authorities.
2. Do not use products with misleading or inappropriate data.
3. Do not contain claims, images, illustrations and language that conflict with prevailing social values and customs.
4. Do not reuse consumer product packaging for any purpose and dispose of it safely.
5. Provide a label indicating the opening date on products whose shelf life depends on the opening date.
6. Provide a label indicating product data on refilled packages.
7. Do not leave the product uncovered after use.
8. Do not use expired, spoiled, damaged, unauthorized, prohibited or laboratory failed consumer products.
9. Follow the instructions for using and storing consumer products according to the data written on the product label.

### 10-2 School Uniform

1. It is necessary to ensure the safety of school uniforms and their compliance with Dubai Municipality requirements regarding the safety of textiles and fabrics by providing valid laboratory test results before contracting with suppliers.
  - Required tests: Toxic metal, Formaldehyde
  - Accredited laboratories: Dubai Central Laboratory or any other local or international laboratory accredited by the Emirates International Accreditation Centre to conduct this test.

For more requirements, please refer to Technical Guidelines (83) for Compliance of Establishments Dealing with Consumer Products.

Issue Date: 9 <sup>th</sup> December 2024	OPEN DATA / بيانات مفتوحة	Version # (5)
Superseded Issue Date: 12 <sup>th</sup> March 2023		Page 18 of 25

	Organization Unit:	Health & Safety Department	الوحدة التنظيمية:	
	Document title:	Technical Guidelines for Compliance of Educational Institutions	اسم الوثيقة:	
	Doc Ref:	DM-HSD-GU15-EIC	رمز الوثيقة:	

## 11- Requirements for Controlling the Facility's Operational Noise Level



- 1- Equip the facility with an effective operational noise isolation system.
- 2- There must be a physical barrier separating the internal environment of the building from the external environment to resist noise transmission (Reference: Dubai Building Code 2021)
  - Ensure the noise level outside the facility is within the permissible limits at all times of the day.
  - Control the noise level to less than 55 decibels from 7 am to 8 pm.
  - Control the noise level to less than 45 decibels from 8 pm to 7 am.

## 12- Water Quality

### 12-1 Water Systems Quality in Educational Institutions

1. Providing a contract with a company approved by Dubai Municipality to clean and disinfect tanks and water systems.
2. Cleaning and disinfecting the water system (water tanks / internal water distribution network / any other water system) at least twice a year (every six months), and after each quarterly vacation exceeding a month by an approved company, while keeping reports.
3. Reports must include all treatment procedures, the method of using biocides, and the chemical safety data sheet (MSDS).
4. In the event that samples drawn from water systems do not conform to the standards, cleaning and disinfection must be done immediately, with samples being re-drawn 48 hours after the cleaning and disinfection process, and reports being kept.
5. Maintaining the water network, detecting leakage sites and rusty parts, and repairing or replacing them.
6. Faucets and shower heads in the institution must always be clean and free of contamination and must be cleaned and sterilized periodically at least once every three months, and cleaning documents must be kept.
7. The school must have a policy to run all taps and showers for several minutes at least once a week to flush out stagnant water, especially if they have not been in use.
8. Protect water tanks from contaminants, ensure that they are tightly closed and inspected at least once a month.
9. Hot water should be maintained at temperatures of (50°-60°C) and cold water at temperatures below 20°C.

Issue Date: 9 <sup>th</sup> December 2024	بيانات مفتوحة / OPEN DATA	Version # (5)
Superseded Issue Date: 12 <sup>th</sup> March 2023		Page 19 of 25

 حكومة دبي GOVERNMENT OF DUBAI	<b>Organization Unit:</b>	<b>Health &amp; Safety Department</b>	<b>الوحدة التنظيمية:</b>	 بلدية دبي Dubai Municipality
	<b>Document title:</b>	Technical Guidelines for Compliance of Educational Institutions	<b>اسم الوثيقة:</b>	
	<b>Doc Ref:</b>	DM-HSD-GU15-EIC	<b>رمز الوثيقة:</b>	

## 12-2 Water Quality in Fountains, Waterfalls, Irrigation Systems, and Cooling Towers in Educational Institutions



1. Ensure to the make maintenance and cleanliness of fountains, decorative waterfalls and cooling towers if they exist.
2. Provide an automatic disinfectant injection system to reduce the growth and reproduction of bacteria.
3. Provide daily records of measuring the pH and disinfectants used according to Table No. (7) below:

Water System	pH	Free Residual Bromine	Free Residual Chlorine
<b>Fountains, waterfall, ornamental water feature systems (outdoor and indoor)</b>	7.4-7.6 pH	2-3 ppm	1-2 ppm
<b>Cooling Towers</b>	-	1-2 ppm	0.5-1 ppm

## 12-3 Water Quality Tests

The number of samples depends on the size of the building, the available water systems and the number of users according to the risk assessment mechanism, where samples are taken from the various water systems in the building as in Table No. (8) below:

No.	Water system	Water sampling points	Number of water samples (minimum limit)/quarterly (every three month at least)
1	<b>Water Tanks</b>	All water tanks with storage volume 1000 liters or more	One sample from each water tank
2	<b>hot, warm, and cold-water system</b>	Including :(Hot tap, cold tap, shower head)	3-4 samples from different locations
3	<b>Cooling tower</b>	Make up water tank	One sample from each make up water tank
		Collection basin (an area below the tower where cooled water is collected)	One sample from each Collection basin
4	<b>Fountains, water fall and ornamental water feature and splash (indoor and outdoor)</b>	Collection basin	One sample from each Collection basin

	Organization Unit:	<b>Health &amp; Safety Department</b>	الوحدة التنظيمية:	
	Document title:	Technical Guidelines for Compliance of Educational Institutions	اسم الوثيقة:	
	Doc Ref:	DM-HSD-GU15-EIC	رمز الوثيقة:	

5	Irrigation system	Water tank	One sample from each Irrigation system Storage water tank
		Irrigation Water Spring if available	One sample from any Irrigation Water jet if available

#### Frequency of sampling for tests according to Table No. (9) below

Type of Test Required	Frequency	
	All Water Systems (Except cooling tower system)	Cooling Tower
<b>Legionella</b>	Quarterly	Quarterly
<b>TBC</b>	Quarterly	Monthly



**Table No. (10): Permissible limits for pollutants in the building's water**

S.no	Water system	Microorganisms	Limit Reference
1	<b>Cooling Water System (cooling tower and evaporative condenser)</b>	Legionella	Not exceed 1000 cfu/l
		TBC	Not exceed 10000 cfu/ml
2	<b>Hot, Warm and Cold-Water System</b>	Legionella	Not exceed 1000 cfu/l
		TBC	500 cfu/ml
3	<b>Fountains, Water Fall and ornamental Water Feature and Splash (indoor and outdoor)</b>	Legionella	Less than 1 cfu/l
		TBC	500 cfu/ml

#### **12-4 Water Quality in Drinking Water Coolers and Fountains**

1. Place coolers in appropriate areas (safe and clean).
2. Clean the cooler periodically according to the manufacturer or according to the result of the cooler inspection.
3. Properly close the cooler tanks to protect them from pollutants.
4. Maintain water coolers periodically and keep records of maintenance and periodic inspection.
5. Take a water sample for microbiological and chemical examination according to the technical guidelines for unbottled drinking water issued by Dubai Municipality, as shown in Table No. (11) below:

Issue Date: 9 <sup>th</sup> December 2024	بيانات مفتوحة / OPEN DATA	Version # (5)
Superseded Issue Date: 12 <sup>th</sup> March 2023		Page 21 of 25

	<b>Organization Unit:</b>	<b>Health &amp; Safety Department</b>	<b>الوحدة التنظيمية:</b>	
	<b>Document title:</b>	Technical Guidelines for Compliance of Educational Institutions	<b>اسم الوثيقة:</b>	
	<b>Doc Ref:</b>	DM-HSD-GU15-EIC	<b>رمز الوثيقة:</b>	



S.no	Type of test	Parameters
1	<b>Chemical Parameters</b>	Sodium (Na), Hardness as CaCo3, Copper, Iron, Zinc, Calcium, Magnesium, pH value at 25 C, Total Dissolved Solids, Bromate (BrO3), Chloride (Cl), Nitrate (NO3) & Sulphate (SO4)
2	<b>Biological Parameters</b>	Coliforms & E. coli

## 13- Indoor Air Quality

### *13-1 General Requirements for Indoor Air Quality (IAQ) for a Healthy Environment in Educational Institutions.*



- Regular maintenance of ventilation and air conditioning (HVAC) systems, including cleaning air filters at least once a month and replacing them as recommended by the manufacturer, and checking for leaks and damage.
- Cleaning air ducts at least once every three years in the absence of microbiological contamination (such as mold) and cleaning them immediately in the event of any trace of mold by a specialized company.
- It is preferable for educational institutions to have mechanical ventilation systems that provide at least 15 cubic feet per minute (15 cfm) of outside air per person (determined by age and activity) or according to the minimum outside air volume specified by the Dubai Building Code issued by Dubai Municipality.
- Providing an appropriate ventilation and air conditioning system for the following places:
  - Pump rooms: A ventilation system (air expulsion system at a rate of 0.25 CFM/Sqr Feet per square foot) and an appropriate air conditioning system must be provided.
  - Laboratories: A ventilation system (air exhaust system at a rate of 1 CFM/Sqr Feet per square foot) must be provided separate from the ventilation system in the building, and an external ventilation system (fresh air handling unit) and suitable air conditioning according to the Dubai Building Code issued by Dubai Municipality.
- If a mechanical ventilation system is available, fresh air inlets for ventilation units must be at least 3 meters away from the nearest source of pollutants (cooling towers, exhaust air from bathrooms and food preparation kitchens), and 10 meters if the exhaust air source is from chemical laboratories, taking into account the wind direction.
- Avoid using harmful products that emit volatile organic compounds (VOCs) and formaldehyde.
- Check for leaks and repair them immediately, maintain humidity levels between 30% and 60%, and ensure that condensate water is drained due to ventilation in areas exposed to moisture accumulation.

Issue Date: 9 <sup>th</sup> December 2024	OPEN DATA / بيانات مفتوحة	Version # (5)
Superseded Issue Date: 12 <sup>th</sup> March 2023		Page 22 of 25

 حكومة دبي GOVERNMENT OF DUBAI	Organization Unit:	<b>Health &amp; Safety Department</b>	الوحدة التنظيمية:	 بلدية دبي Dubai Municipality
	Document title:	Technical Guidelines for Compliance of Educational Institutions	اسم الوثيقة:	
	Doc Ref:	DM-HSD-GU15-EIC	رمز الوثيقة:	

**Table No. (12): Air pollutants in new buildings:**



Pollutant & Contaminant parameter (Sample Type)		Long Term Exposure		Short Term Exposure		Threshold Limit Value – Ceiling (TLV-C)
		Max-acceptable	Average Time	Max-acceptable	Average Time	
Gaseous pollutants	Total Volatile Organic Compounds (TVOC)	300 µg/m <sup>3</sup>	8-hour	3 ppm	N/A	5.5 ppm
	Formaldehyde (HCHO)	0.01 ppm	8-hour	0.08ppm 0.1 mg/m <sup>3</sup>	30 min	1 ppm
	Lead	0.15 µg/m <sup>3</sup>	3 months	30 µg/m <sup>3</sup>	8-hour	50 µg/m <sup>3</sup>
Particulate & Biological	Particle Pollution (PM <sub>2.5</sub> )	35 µg/m <sup>3</sup>	24- hour	100 µg/m <sup>3</sup>	1-hour	-
	Particle Pollution (PM <sub>10</sub> )	150 µg/m <sup>3</sup>	24- hour	100 µg/m <sup>3</sup>	8-hour	-
	Total bacterial counts	(500 CFU/m <sup>3</sup> )				-
	Total fungal counts	(500 CFU/m <sup>3</sup> )				-

 حكومة دبي GOVERNMENT OF DUBAI	Organization Unit:	Health & Safety Department	الوحدة التنظيمية:	 بلدية دبي Dubai Municipality
	Document title:	Technical Guidelines for Compliance of Educational Institutions	اسم الوثيقة:	
	Doc Ref:	DM-HSD-GU15-EIC	رمز الوثيقة:	

**Table No: 13 - Common Air Pollutant in Existing Building**

Pollutant & Contaminant parameter (Sample Type)		Long Term Exposure		Short Term Exposure		Threshold Limit Value – Ceiling (TLV-C)
		Max-acceptable	Average Time	Max-acceptable	Average Time	
Gaseous pollutants	Total Volatile Organic Compounds (TVOC)	0.6 mg/m <sup>3</sup>	8-hour	3 ppm	N/A	5.5 ppm
	Formaldehyde (HCHO)	0.01 ppm	8-hour	0.08 ppm 0.1 mg/m <sup>3</sup>	30 min	1 ppm
	Carbon dioxide (CO <sub>2</sub> )	800 ppm	8-hour	700 ppm above outdoor air levels	N/A	5000 ppm
	carbon monoxide (CO)	9 ppm (10 mg/m <sup>3</sup> )	8-hour	25 ppm (35 mg/m <sup>3</sup> )	1-hour	200 ppm
		(7 mg/m <sup>3</sup> )	24-hour	90 ppm (100 mg/m <sup>3</sup> )	15 MIN	
	ozone (O <sub>3</sub> )	0.06 ppm (100 µg/m <sup>3</sup> )	8-hour	0.12 ppm	1-hour	800 µg/m <sup>3</sup>
	nitrogen dioxide (NO <sub>2</sub> )	40 µg/m <sup>3</sup>	Annual (12months)	0.1 ppm (200 µg/m <sup>3</sup> )	1-hour	10 ppm (in 5 min)
		150 µg/m <sup>3</sup>	8-hour	1 ppm	15 min	
Particulate & Biological	Particle Pollution (PM <sub>2.5</sub> )	35 µg/m <sup>3</sup>	24	100 µg/m <sup>3</sup>	1-hour	
	Particle Pollution (PM <sub>10</sub> )	150 µg/m <sup>3</sup>	24	100 µg/m <sup>3</sup>	8-hour	
	Total bacterial counts	1000 CFU/m <sup>3</sup>				-
	Total fungal counts	500 U/m <sup>3</sup>				-



	<b>Organization Unit:</b>	<b>Health &amp; Safety Department</b>	<b>الوحدة التنظيمية:</b>	
	<b>Document title:</b>	Technical Guidelines for Compliance of Educational Institutions	<b>اسم الوثيقة:</b>	
	<b>Doc Ref:</b>	DM-HSD-GU15-EIC	<b>رمز الوثيقة:</b>	

## 14-Reference

- Local Order No. (11) of 2003 Concerning Public Health and Community Safety in the Emirate of Dubai.
- Administrative order No. (30) Of 2007 concerning the issuance of the Executive Regulation of Local Order No. (11) of 2003 Concerning Public Health and Safety of the Society in the Emirate of Dubai.
- Technical Guidance Guide (44) on controlling Legionella in water systems Dubai Municipality Issue date: September 13, 2022.
- Technical Guidelines (17) for Quality of Un-bottled Drinking Water
- Technical Guidance Guide (15) for the compliance of educational facilities (universities, schools, government, and private nurseries).
- Technical Guidelines (80) on Private swimming pools safety.
- Technical Guidelines (34) For Approval of Swimming Pool Plans.
- Technical Instructions Guide (107) for Consumer Products Storage Requirements.
- Technical Guidelines (119) for Technical Guidelines for Indoor Air Quality for Healthy Life.
- Technical Guidelines (02) for Safety in Play Areas and Events Areas
- Dubai Building Code issued by Dubai Municipality 2021.
- Guidelines for safe recreational water environments. Volume 2: Swimming pools and similar environments issued by WHO <https://www.who.int/publications/i/item/92415468>.
- School Chemistry Laboratory Safety Guide. School Chemistry Laboratory Safety Guide (cdc.gov)

For more information	To submit (suggestions/comments/complaints)
1- Email: <a href="mailto:ehcinspection@dm.gov.ae">ehcinspection@dm.gov.ae</a>	1- The unified platform for communication between the Dubai government and its customers /- Platform 04 through the link: <a href="https://04.gov.ae">https://04.gov.ae</a>
2- Dubai Municipality - Call Center (24/7): 800900	2- Dubai Municipality - Call Center (24/7): 800900