



Kingdom of Saudi Arabia
Ministry of Interior
General Directorate of Civil Defense

Regulations for Safety and Fire Protection in Archaeological Museums

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Chapter 1

1st: Definitions:

1. Museum

A public or private building dedicated to safe and show of antique or scientific or environmental materials , due to their artistic, practical, historical or heritage value .

2. The Law

Civil Defense Law issued by the Royal Decree No. 10 and dated 10/5/1406 H and all other relevant regulations.

3. Civil Defense Representative

The authorized person or persons by the General Directorate of Civil Defense, or one of its centers to carry out inspection, forfeiture, and investigation of violations as per the rules and procedures specified in the relevant Regulation, to ensure the safety of the building, and safety of firefighting equipment, and tools.

4. The Relevant authority

The Ministry of Interior, the General Directorate of Civil Defense and other public authorities involved in the process of issuing the construction permit.

5. The person responsible for safety

According to article 5 and 10 of the Civil Defense law , a person assigned to be responsible for all security and safety work in archaeological museums . Also the person issued in his name is responsible for safety in all cases, and his duties and responsibilities are as stated in the Regulations .



6. Specifications

- a) Saudi Standards, issued by the Saudi Standards, Metrology, and Quality Organization, SASO.
- b) International Standards : Foreign specifications adopted by the Saudi Standards, Metrology, and Quality Organization, the official documents shall be submitted the material or machine all provide safety conditions and requirements , and be adopted by SASO.

Chapter 2

General terms and conditions

2

The department of the museum is committed to submit technical report . This report is prepared by one of the technical offices specialized in safety works and firefighting and approved by the General Directorate of Civil Defense to highlight the extent of compliance with the specifications, requirements, and rules mentioned in this regulation , this office responsible to civil defense and other relevant bodies for seriousness and accuracy of the study and for monitoring its implementation .

3

The person responsible for safety in the facility shall be directly responsible for performing periodic inspections and tests of all electrical and mechanical equipment and machinery, as well as all safety, firefighting, surveillance, alarm systems and immediate repair of any malfunction or defect .

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The person responsible for safety in the facility shall be stop operation of the machine or device has any malfunction involving a risk, until it is detected and repaired by the specialists .

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The person responsible for safety in the facility shall be responsible for the emergency plan and evacuation , in coordination with Civil Defense Centre and determine procedure that must be taken with the civil defense .

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All workers must be trained in safety and ambulance tasks in one of the specialized national institutes that are approved by the General Directorate of Civil Defense.

7

The person responsible for safety in the facility is obligated to set up signboards according to the civil defense design for (no smoking) , limit any source of fire, guide the exits and escape plans and safety instructions.

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The person responsible for safety in the facility shall assign a register called (safety and firefighting record) according to the application form prepared by Civil Defense. All pages are stamped with the seal of the relevant Civil Defense Center. All the periodic tests and inspections, and maintenance works of the building and the building's electrical and mechanical installations, plus all safety, control, and firefighting, are recorded in this register. The management of archaeological museums will keep this record, that the register is at the disposal of civil defense representative at all times to view and write notes in it.

9

Violations of this regulation shall be detected and investigated according to Civil Defense regulations and instructions.

Chapter 3

Conditions and requirements for safety and protection

10

1. Structural Safety :

- a) Buildings must be compliant with SASO specifications , constructed from non-flammable materials .
- b) The building must be isolated from other buildings by fireproofing walls, and walls may contain holes that are automatically closed in the event of an accident, provided a manual locking device that can be used if it breaks down .

11

Preventive safety precautions

1. Bases, platforms, shelves, cabinets and display must be made of fireresistant materials .
2. Consideration in decoration and Carpet elements , use fire-resistant materials .
3. Consideration in regulation exhibits and cabinets, and clear hallways from any obstacles .
4. Exhibits and cabinets near exits must be mounted on fixed props or walls, so that they do not fall or move .
5. The paintings , antiques and other flammable objects must be away from windows, stairs and visitors, and isolated from the rest of the museum by fire-resistant walls or partitions for two hours .
6. Open doors must be to exits .
7. Emergency doors must be equipped with a crossbar that easily to open when required .
8. The museum's visitor capacity is set at a rate of 2 to 3 square _m per visitor .
9. There should be an annual or semi-annual training on how to firefighting and evacuating and inform Civil Defense about the training date .
10. All parts of the museum must be subject to periodic inspection by Civil defense .
11. BMS systems must be installed to control all building devices and automatically identify failures .

12

Escape routes

1. The building must be provided with escape routes to be evacuated within a maximum of 3 minutes in emergency situations .
2. The exits must be provided according to the building's capacity and at a minimum two exits, one main door and the other is an emergency exit .
3. The distance from any point in the building to the nearest escape routes must less than 20 m .

4. Allocation emergency exits to evacuate the building when occupants are at risk and provide light to those exits.
5. Non-floor exits must lead to protected stairs and then to exits that are leads to outside the building in a secure, safe and open air.
6. Each section of the building must be equipped with an emergency door, which will be opened outside, which will allow for evacuation of staff and be marked with arrows written in Arabic and English (emergency door).

13

Electrical and mechanical safety

1. All electrical and mechanical equipment and services must be designed and installed per Saudi Standards and by a specialized technical authority.
2. A secondary source of electrical power must be provided for appliances and emergency lighting.
3. Equipment and electrical installations shall be provided with appropriate fire extinguishers such as carbon dioxide and chemical powder extinguishers.
4. Electrical appliances and equipment in museums must be the types that provide fire protection.
5. All electrical equipment and metal parts should be grounding in accordance with the relevant technical specifications .
6. A general breaker and power breakers must be installed to feed all power and other services, to separate and protect when failures occur.

14

Fire Safety and Control Service

Establish a safety team on the significance and size of the museum . In any event, a safety officer is assigned to each site, assisted by a trained team of safety and firefighting responsible for implementing safety requirements in coordination with the director of the museum.

Civil Defense regulation on the person responsible for safety , in particular :

1. The plan for integrated incident and emergency evacuation approved by Civil Defense department.
2. Museum Safety Control Service, especially during public and visitor presences.
3. Instructions about warning and firefighting devices(how its work) , emergency numbers and procedures for visitors and staff safety.

15

Alarm and firefighting systems

1. Must provide the facility firefighting procedures using fire extinguishers (powder – chemical – dry – CO2) that correspond to potential hazards . 2- The Fire extinguishers must comply with Saudi Standards issued by SASO.
1. The fire extinguishers are placed in clearly visible places so that they are easy to reach and use when needed.
2. The inspection date and testing on each extinguisher must be visible on each extinguisher.
3. The museums must be equipped with early fire alarm and detection systems.
4. A water supply source must be available for firefighting purposes in the building.
5. The building provided a number of fire hose reels , covering the entire museum.
6. The fire hose reels provide a type operating on three phases (dash , straight line , close).
7. The person responsible for safety must check the network by technicians (twice a year) to ensure the reels are not leaking , in good condition and ready for use.



8. The person responsible for safety must ensure that the inspection is carried out by a specialized engineer and register it in (safety and firefighting record).
9. The museum department should submit a technical study containing a complete plan of fire, warning and evacuation systems and equipment, as well as other safety requirements.
10. Civil Defense is exploring by museum dep. about safety equipment, fire and alarm systems , after providing the plan.

