

## GUIDELINE ON APPLICATION FOR EXPLOSIVE LICENCE

### TYPES OF LICENCE

This section details the various types of Explosive licences available under GEWCA and describes the specific activities authorised under each licence type.

<b>Explosive Licence Type</b>	<b>Description</b>
<b>Possession</b>	Authorises possession and use of specified explosives. Limited to entities with legitimate needs.
<b>Transport</b>	Permits movement of explosives between approved locations. Only for licensed entities or authorised transportation companies with specially equipped vehicles.
<b>Storage</b>	Authorises storage at approved magazines/premises with strict security measures and quantity limits.
<b>Supply</b>	Permits sale/distribution to licensed entities. Only for approved suppliers with proper security measures.
<b>Manufacture</b>	Allows production of explosives. Highly restricted - only for approved manufacturers with comprehensive safety protocols.
<b>Dispose</b>	Permits disposal through approved methods. Limited to qualified entities with proper disposal facilities.
<b>Repair</b>	Authorises repair and maintenance of explosive devices. Limited to qualified entities with technical expertise in explosive devices.
<b>Use (Rock Blasting)</b>	Permits use of explosives specifically for rock blasting operations. Limited to qualified shot firers and companies with expertise in demolition/mining operations.
<b>Use (Fireworks)</b>	Authorises the display/use of fireworks for events. Limited to licensed pyrotechnicians and companies with expertise in fireworks displays.
<b>Trader (Import/Export)</b>	Permits to import or export explosives. Typically issued to licensed explosive supplier only.

## TYPE OF EXPLOSIVE STORAGES

2 For premises storing or processing explosives, safety and security measures must be implemented. The following table shows the common types of explosives and their storage requirement:

Type of Explosives	Required Storage
Explosives HD 1.1, 1.2, 1.3 (Blasting & Commercial explosives)	Explosive Magazine APO for Escort
Fireworks HD 1.4	Explosive Magazine APO for more than 10KG NEQ
Ammunitions HD 1.4	Armoury / Magazine APO for Escort
Marine Pyrotechnics HD 1.4 (Signal Flares)	Magazine / Approved storage on site (Maximum quantity for 1-week usage only) with CCTV, Intrusion Detection System: <ul style="list-style-type: none"><li>- Strong room</li><li>- Safe in open warehouse</li><li>- Strong cabinet in dedicated store</li></ul>

## DOCUMENTS REQUIRED TO SUPPORT APPLICATION

3 When applying for Explosive Licence, the following supporting documents must be uploaded to support the application.

### A. MANDATORY DOCUMENTS (Required for ALL Licence Types)

No.	Document	Required Information
1.	Company Letter	1. Company's business profile and principal activities 2. Reason for licence application 3. Explain why explosives are required 4. Detailed description of processes/usage
2.	Explosive Information	1. Product specifications 2. Brochures 3. Safety Data Sheets (SDS)
3.	Risk Assessment	1. Quantitative Risk Assessment (QRA) Study or 2. Risk Assessment Report identifying: <ul style="list-style-type: none"><li>- Hazards and risks related to use, storage and transport</li><li>- Fire and explosion risks</li><li>- Recommended control measures</li><li>- Address hazards stated in SDS</li></ul> 3. If the applicant is unable to do a proper risk assessment, may engage a risk assessment consultant to help the company do the report.  More information on Risk Management can be obtained from WSH website: <a href="https://www.mom.gov.sg/workplace-safety-and-">https://www.mom.gov.sg/workplace-safety-and-</a>

		<a href="https://www.healthandsafety.gov.au/health/safety-and-health-management-systems/risk-management#conducting-risk-assessments">health/safety-and-health-management-systems/risk-management#conducting-risk-assessments</a>
4.	Layout Plan	<ol style="list-style-type: none"> <li>1. Storage location details</li> <li>2. Items stored together with explosives</li> <li>3. Types of activities being carried out</li> </ol>
5.	Safety & Security Documentation	<ol style="list-style-type: none"> <li>1. Safety Management Plan</li> <li>2. Security Plan</li> </ol> (Refer to guidelines on putting up of Safety and Security plans) <ol style="list-style-type: none"> <li>3. Emergency Response Plan for:             <ul style="list-style-type: none"> <li>• Fire incidents</li> <li>• Explosion</li> <li>• Other safety/security incidents</li> </ul> </li> </ol>
6.	Staff Training Records	<ol style="list-style-type: none"> <li>1. Details of training methods (external/in-house)</li> <li>2. Training records/certification</li> <li>3. Briefing records</li> <li>4. Training attendance records</li> <li>5. For employees handling explosives: Security clearance through GoBusiness Website</li> </ol>

## B. SPECIFIC REQUIREMENTS BY LICENCE TYPE

No.	Licence Type	Additional Documents Required
1.	Manufacture	<ol style="list-style-type: none"> <li>1. Layout plan showing:             <ul style="list-style-type: none"> <li>• Manufacturing areas</li> <li>• Storage locations</li> <li>• Safety equipment locations</li> </ul> </li> <li>2. Manufacturing process documentation</li> <li>3. Risk assessment specific to manufacturing</li> </ol>
2.	Storage	<ol style="list-style-type: none"> <li>1. Layout plan showing:             <ul style="list-style-type: none"> <li>• Storage areas</li> <li>• Safety equipment locations</li> <li>• Security features</li> </ul> </li> <li>2. If using third-party storage:             <ul style="list-style-type: none"> <li>• Letter of Agreement</li> <li>• Agreement stating type and quantity</li> </ul> </li> </ol>
3.	Supply	<ol style="list-style-type: none"> <li>1. Layout plan showing:             <ul style="list-style-type: none"> <li>• Storage areas</li> <li>• Handling areas</li> </ul> </li> <li>2. Inventory management procedures</li> </ol>
4.	Transport	<ol style="list-style-type: none"> <li>1. Hazmat vehicle information</li> <li>2. Hazmat Transport Driver Permit (HTDP)</li> <li>3. Transport Emergency Response Plan</li> <li>4. Route of transportation details</li> <li>5. Safety and security management plan for movements</li> </ol>
5.	Possess	<ol style="list-style-type: none"> <li>1. Layout plan showing:             <ul style="list-style-type: none"> <li>• Storage location</li> </ul> </li> </ol>

		<ul style="list-style-type: none"> <li>• Type of activities</li> </ul> 2. If using third-party storage: <ul style="list-style-type: none"> <li>• Letter of Agreement</li> <li>• Agreement stating type and quantity</li> </ul>
6.	Repair	1. Layout plan showing: <ul style="list-style-type: none"> <li>• Repair areas</li> <li>• Storage locations</li> <li>• Safety equipment locations</li> </ul> 2. Repair procedures 3. Staff competency records
7.	Dispose	1. Disposal methodology 2. Safety procedures 3. Environmental protection measures 4. Disposal location details
8.	Use	1. Detailed work procedures 2. Safety protocols 3. Staff competency records 4. Risk assessment specific to usage

### C. FOR RENEWAL APPLICATIONS

No.	Requirement	Details
1.	Records Required	1. Inventory records 2. Transaction records 3. Updated staff training records 4. Incident reports (if any) 5. Any operational changes

### APPLICATIONS RELATED TO EXPLOSIVE USER LICENCE

4 An Explosive User Licence authorises the holder to use explosives either for conducting fireworks displays or for blasting operations at specified locations in connection with approved projects. The following are the procedures when processing applications for Explosive User Licence.

#### Explosive User Licence for Fireworks Display

5 An Explosive User Licence for fireworks display can only be issued to companies that already possess a valid Licence to Supply and Store Explosives. The following documents must be submitted with the application:

#### a. Supporting Documents Requirements

- i. A valid engagement letter from the event organiser who has engaged the licensed company must be submitted
- ii. Written approval from the property or landowner permitting the use of the location for fireworks display
- iii. A detailed fireworks firing floor plan showing the setup location and safety radius allocation that complies with the requirements stipulated in the relevant Code of Practice for Fireworks Display (Western Australia) for both indoor and outdoor events

- iv. For outdoor events, air clearance approvals from both CAAS and RSAF must be obtained
  - v. If the fireworks are to be fired from or over water under PUB jurisdiction, clearance from PUB is required
- b. Aerial Shell are generally prohibited during fireworks displays, exceptions are made only for outdoor fireworks displays at:
- i. Cultural or commemorative events of national significance
  - ii. Community events where fireworks play a major role in celebrations
  - iii. Special events declared under Section 21 of the Public Order Act 2009
  - iv. All exceptions require express endorsement from a Singapore public sector agency

#### Explosive User Licence for Rock Blasting Projects

6 An Explosive User Licence for Rock Blasting Projects can only be issued to companies that already possess a valid Licence to Supply and Store Explosives. The following documents must be submitted with the application:

- a. Supporting Documents Requirements
  - i. Letter of Engagement for the project from the Main Contractor
  - ii. Detail of the Project, Location and Duration
  - iii. A Rock Blasting Proposal detailing:
    - a) Scope of work
    - b) Blasting methodology
    - c) Vibration calculation
    - d) Risk assessment study
    - e) Relevant stakeholders in the vicinity
  - iv. Detailed site security plan including:
    - a) Access control measures
    - b) Storage arrangements
    - c) Transportation procedures
  - v. Names and qualifications of personnel who will handle the explosives
  - vi. Emergency response procedures

#### BLASTING CONFERENCE

7 A Blasting Conference may have to be arranged for the Explosive User Licence application. Some of the potential stakeholders for blasting operations are as follows:

Stakeholders	Point of Interest
Telecommunication Companies	Underground cables
Public Utilities Board	Water Pipes
Power Grid	Electric cables
Land Transport Authority	Roads or MRT Tracks
Housing Development Board	HDB flats
Maritime Port Authority	Near sea or underwater blasting

8 The purpose of the blasting conference is for the blasting company to present their methodology of blasting and explain how the blasting work will affect the stakeholders and their proposed mitigating measures. Mitigating measures will include ensuring safety distance from the blasting site, adjusting the quantity of explosives used per hole and putting in vibration and sound dampening measures.

9        When the blasting company can provide satisfactory justification that the blasting work will have minimal impact on the properties of the relevant stakeholders, the stakeholders will provide a "No Objection" letter to Applicant. The stakeholders may also impose certain conditions for the blasting company to comply with during their blasting operations.

10       The blasting company may be directed to arrange for a trial blast with a small quantity of explosives at the site, to prove to the relevant stakeholders that the outcome of the blasting matches their calculations in the blasting proposal. If the outcome of the trial blast differs from the blasting methodology submitted, the blasting company will have to rework their proposal and arrange for another trial blast.