

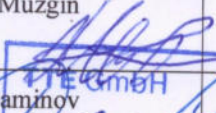
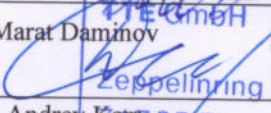
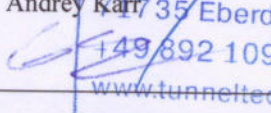
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**Contract : PROJECT 401 – INTEGRATED TRAINING CENTER
FOR QAF JOINT SPECIAL FORCES**

Contract No. : T-101-01

Client : QATAR ARMED FORCES

Contractor : GAP INSAAT YATIRIM VE DIS TICARET A.S.

	Name & Signature	Position	Date
Prepared By:	Alexey Muzgin 	TTE GmbH HSE Engineer	March 16, 2021
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Rev.	Date	Change Description
0A	February 25, 2021	Issued for Approval
0B	March 10, 2021	Revised as per the Comment-Response Sheet P401-CRS-GAP-G01-HSE-004, rev. 0A
0C	March 16, 2021	Revised as per the Comment-Response Sheet P401-CRS-GAP-G01-HSE-004, rev. 0B

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1. PURPOSE

To provide guidance and direction to TTE personnel in the event of an emergency or crisis situation in order to effectively respond to any emergency situation, that could cause death, injury, disruption of operations, or physical or environmental damage. Emergency Response Plan determines measures to be taken in emergencies such as fire, chemical spills, explosion, uncontrolled emission, work accidents and tasks to be carried out by the personnel in charge and other personnel to minimize casualties and loss of material and environmental impacts.

2. DEFINITIONS

ERP	Emergency Response Plan.
Project	Integrated Training Centre for Qatar Armed Forces project.
Fire Safety Consultant	Third party competent and qualified individual knowledgeable in fire safety and prevention, provided by the Contractor.
Hot Work	Any process that can be a source of ignition when flammable material is present or can be a fire hazard regardless of the presence of flammable material in the workplace. Common hot work processes are welding, soldering, cutting and brazing.
Sandstorm	A dust storm, also called sandstorm, is a meteorological phenomenon common in arid and semi-arid regions.
Construction Manager	TTE Representative.
Site Manager	TTE Representative.
Site Safety Representative	GAP Insaat Representative.

3. SCOPE

This procedure is implemented within the execution of works on assembly and installation of Wind Tunnel at the Integrated Training Centre for Qatar Armed Forces project.

Emergency Overview

An emergency is defined as “A situation or an impending situation that constitutes a danger of major proportions that could result in serious harm to persons or substantial damage to property and that is caused by the forces of nature, a disease or other health risk, an accident or an act whether intentional or otherwise.”

This Emergency Response Plan (ERP) is intended to advise TTE onsite personnel on the procedures they must follow and how to communicate in the event of an emergency situation related to the

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Integrated Training Centre for Qatar Armed Forces Project (the “Project”) during the assembly and installation of Wind Tunnel.

All construction work areas will be restricted to authorized personnel only including installation of gates at all private access road entrances.

4. IMPLEMENTATION

Emergency Communications

If there is an emergency, first responders (Police, Fire, and Paramedics) will be contacted via the 999 Operator. Emergency responders will then be expected to respond following their established procedures and guidelines.

If potentially unsafe situations arise, the person observing the situation must intervene and stop the activity and contact their direct Supervisor or designate.

Emergency Response Plan Holders

This plan will be held at the Construction Manager and Site Manager, or designate. In addition:

- A copy of the plan will be placed in each subcontractor accommodation unit; and
- A copy of the plan will be placed in the on-site building.

Signage

Permanent emergency contact signs will be posted throughout the project facilities, and emergency contact numbers will be established.

Emergency Notification Procedure

The following emergency procedures shall be followed in the event of an emergency or operational exceedance that occurs at the project during installation or precommissioning:

1. Stop work and “freeze” the scene;
2. Notify Construction Manager or Site Manager:
 - a. Immediately contact the nearest management representative and describe the situation, including:
 - b. The nature of the emergency such as a fatality, major illness (i.e. heart attack, not breathing, unconscious, etc.), or minor injury (i.e. twisted ankle, minor cuts, etc.);
 - c. Potential risks of injury to persons at or near the site;
 - d. Potential risks to the environment;
 - e. Potential risks to property; and
 - f. The need for personnel and other resources to respond to the emergency.
3. Identify the location of emergency by referring to the structure.
4. The Construction Manager or Site Manager, or designate, will notify on-site personnel, including any visitors, of the emergency via an alarm system, by telephone, two-way radio or sirens, and then call 999. The Construction Manager or Site Manager, or designate, will describe the emergency to the 999 Operator. For non-urgent incidents the Construction Manager or Site Manager, or designate will coordinate the transportation of the person to the hospital and notify the hospital of the incoming patient.

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5. If the Construction Manager or Site Manager, or designate cannot be immediately reached then the employee will call 999.
6. The Construction Manager or Site Manager, or designate, will notify the GAP Insaat Site Manager and Safety Representative.
7. If required, the Construction Manager or Site Manager, or designate, will assign an employee to go to the nearest access point to meet the Emergency Services and accompany them to the location of the accident.
8. If required, to prevent further potential injury, the Construction Manager or Site Manager, or designate, will evacuate the project area where the accident occurred.
9. The Construction Manager or Site Manager, or designate will identify any need for security measures at the project during the emergency, and designate one person to coordinate these measures.
10. Any excessive delays or delay resulting from unforeseen circumstances that blocks any roads must be relayed to the Emergency Services department immediately.

Emergency Preparedness Training

Training is an integral part of the emergency preparedness and response program at this project, and it is the responsibility of the Construction Manager and Site Manager, or designate, to ensure that all personnel (administrative or field, permanent or temporary) are properly trained on this ERP.

At this project, the ERP is initially presented to each employee during their site orientation and again if/when the plans or employees' responsibility changes. It is the responsibility of each employee to become familiar with the project, learn the evacuation routes, muster and shelter areas, and to attend all safety training events.

When required, and as a supplement to the training, the Construction Manager and Site Manager, or designate, will conspicuously post pertinent information to ensure all employees and/or site visitors can safely respond during an emergency. The Construction Manager and Site Manager, or designate, will make this ERP and other health and safety related information available to all site employees.

Training provides site employees with information and guidelines to assist them in recognizing, reporting and controlling hazards and risks. Employee training is provided at no cost to the employee and must be conducted during the employee's normal work week.

Emergency Drill Training

Mock Emergency Drills will be completed during the early stages of work execution and again during the early stages of installation to review the effectiveness of the ERP so that any deficiencies in the plan can be identified and corrected. Emergency drills shall be conducted with intervals not more than 6 months.

Emergency Response

The Construction Manager or Site Manager, or designate, is assigned as the "Emergency Response Coordinator" during an emergency situation and will be responsible for ensuring that all employees,

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on-site visitors and others adhere to the appropriate emergency response procedures as stated in this ERP.

Any visitor present at the site must report to the Construction Manager or Site Manager, or designate.

All personnel who work during the assembly or installation of Wind Tunnel will undergo training to ensure a high level of safety competency and an understanding of the protocols to be followed in the event of an emergency situation.

Emergency Events and Response Protocols

Emergency events impacting the project may include:

- Fire/Explosion;
- Road Safety;
- Injury/Trauma;
- High Angle Rescue/Confined Space Rescue;
- Structural Damage Chemical - Environmental Spill;
- Severe Weather;
- Site Evacuation;

Fire Hazard and Prevention

Possible fire situations include construction related accidents. The most common Hot Work will be welding. All employees shall follow all Hot Work procedures at all times. Personnel shall be made aware of other risks and rules upon site orientation, which is required prior to being allowed to work onsite.

In order to minimize fire risk, the following measures will be implemented:

- **Personnel training** – All site personnel will be trained to make them aware of the dangers associated with fires, and how to respond in case of a fire.
 - Fire safety briefing must be presented by either a competently trained Site Safety Representative or a Fire Safety Consultant;
 - Fire safety briefing must be documented.
- **No open fires** – There are no exceptions to this rule.
- **Hot Work** – To be carried out in accordance with approved procedures. Site Safety Representative shall ensure suitable fire extinguishing equipment is readily available where welding, cutting are being performed. TTE works scope includes assembly and installation of the Wind Tunnel. TTE will provide the fire extinguishing equipment to ensure safe works performance within its work area. Provision of the fire extinguishing equipment for the Wind Tunnel building shall be within the liability of the Contractor or any other Subcontracting company as per the Project Specifications and applicable Qatar legislation.
- **Fire-breaks** – Each access road will be at a minimum 10 feet wide with no vegetation.

In order to suppress possible fires, the following measures will be implemented:

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- **Portable Fire Extinguishers** – Must be held on site. Each site vehicle shall have at least one (1) ten (10) pound ABC fire extinguisher.
- All ignition sources are prohibited within 25 feet of fuel supplies.
- Smoking is prohibited while refueling equipment.
- Off-Site Emergency Services Support – Any fire not immediately contained and/or suppressed will require a 999 call for Emergency Services support.

Emergency Response Protocol – Fire/ Explosion

- Evaluate further risks of explosion; evacuate area in case of doubt.
- If you are trained in fire safety, and the fire is small, locate extinguisher gear and attempt to extinguish the fire, if possible. Do NOT put yourself at risk.
- If safe extinguishing is not possible, then immediately evacuate the building or structure if inside and clear the area of all personnel, and if possible, vehicles and flammables.
- Immediately notify the Construction Manager or Site Manager, or designate, who will then call 999 to activate Emergency Services and give location of fire. If the Construction Manager or Site Manager, or designate, cannot immediately be reached, call 999.
- Secure the area and direct traffic, as applicable.
- Await the arrival of the Emergency Services.

Emergency Response Protocol – Road Safety

TTE personnel discover a road accident involving the public vehicle or construction vehicle(s):

- Immediately contact Construction Manager or Site Manager, or designate;
- If the situation is an immediate threat to life and health call 999;

Emergency Response Protocol – Injury/Trauma

- Stay calm;
- Remove any hazards. Stop tools and machinery;
- Immediately notify the Construction Manager or Site Manager, or designate, who will then call 999 to activate Paramedics, if necessary. If the Construction Manager or Site Manager cannot immediately be reached call 999. Explain the type of emergency, the location, condition and number of victims;
- Do not move the victim unless there is danger of further injury if he/she is not moved;
- Render first-aid or CPR only if you have been trained;
- Do not leave the injured person except to summon help;
- Comfort the victim until emergency medical service arrives;
- If the worker dies while on duty or because of the work or sustains a work injury the employer or his representative shall immediately notify the police and the Department of the incident. (Labor Law 14, 2004, part 11, art. 108);
- The worker shall receive his full wage during the treatment period or the period of six months whichever is nearer. If the treatment continues for a period exceeding six months the worker

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shall be paid half of his wage until his recovery or proof of his permanent disability or death whichever is nearer. (Labor Law 14, 2004, part 11, art. 109);

Emergency Response Protocol - High Angle/Confined Space Rescue

- Remove any hazards. Stop tools and machinery.
- Bring the injured person to ground level or a safe area for evaluation.
- Treat any life threatening injuries.
- Immediately notify the Construction Manager or Site Manager, or designate, who will then call 999 to activate the Emergency Services and/or Paramedics, if necessary. If the Construction Manager or Site Manager cannot immediately be reached call 999.
- Inform other applicable management personnel.

Emergency Response Protocol - Working at Height/Enclosed area

- Immediately notify the Construction Manager or Site Manager, or designate, who will then call 999 to activate the Emergency Services and/or Paramedics, if necessary. If the Construction Manager or Site Manager cannot immediately be reached call 999.
- Designate rescue works coordinator (team lead) and who will in turn designate team members. All TTE rope access technicians are trained to provide rescue at height. Rescue team lead is to be selected based on the highest qualifications and previous rescue experience among available team.
- Ensure that rescuers are protected against falling and any other hazards.
- If possible, securely attach a second line to the workers' harnesses to assist in pulling them to a safe area. (Note: more than two strong workers will be needed to pull an injured person upwards for rescue).
- Ensure that any slack in the retrieving lines is taken up to avoid slippage.
- In case of life-threatening situation for an injured person, it is required to start with providing first aid and then the injured person can be descended to receive medical assistance from the ambulance or to be transported to the hospital. Provide first aid and treat the person for suspension trauma and any other injuries until the ambulance arrives.
- Actions shall comply with QCS 2014 sec.1 - part 10, sec.11 and Labour Law 14 of 2004.

Emergency Response Protocol – Structural Damage

- Evaluate further risks; evacuate area in case of doubt.
- Remove any hazards (stop work).
- Immediately notify the Construction Manager or Site Manager, or designate who will then call 999 to activate the Emergency Services and/or Paramedics, if necessary. If the Construction Manager or Site Manager, or designate cannot immediately be reached call 999.
- Secure the area and direct traffic as applicable.

Environmental Spill

Spills Response - Petroleum, Oil, Lubricants and Chemicals

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Spills can include:

- Spills resulting from traffic accidents and fire fighting.

Material Safety Data Sheets

Subcontractor is required to maintain listings of all materials that it is using which may be flammable or hazardous to health.

Emergency Response Protocol - Spills

Immediately upon a release or a spill, steps should be taken to implement procedures for containment, control and cleanup of the spill, as follows:

- In the event of a spill, and only if it is safe to do so, stop the spill and remove all ignition sources.
- Immediately notify the Construction Manager or Site Manager, or designate, who in turn will notify other regulatory authorities, as required.
- Ensure the safety of all individuals in the area and evacuate the area as necessary.
- Secure the area.
- Contain the spill either by constructing containment dikes, by using spill absorption materials, or by other appropriate methods.
- If possible, identify the material released.
- If the material can be identified, use the Material Safety Data Sheet (MSDS) for detailed procedures.
- In most cases, clean-up procedures should start as soon as possible to prevent further spread of the substance into flowing water, ground water or sewer systems.
- For small spills or spills of vehicle fluids, follow the guidelines and procedures set forth in the Material Safety Data Sheets (MSDS) for proper clean up and disposal.
- Arrange for clean-up and proper disposal of all collected waste materials at an authorized regulated project.
- Take all necessary precautions to ensure that the incident does not reoccur.

Severe Weather

Sandstorms or dust storms arise when a gust front or other strong wind blows loose sand and dirt from a dry surface. Fine particles are transported by saltation and suspension, a process that moves soil from one place and deposits it in another.

Precautions to take during a dust storm:

- Stay indoors as much as possible, particularly if you are at risk of health problems.
- Close the windows, doors and vents.
- If possible, stay in an air-conditioned facility
- If you have to go outside, wear a mask over your mouth and nose to prevent you from breathing in dust. A P2 or P3 mask, available from a hardware store, should be effective.

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- Immediately notify the Construction Manager or Site Manager, or designate, who will then call 999 to activate Paramedics, if necessary. If the Construction Manager or Site Manager cannot immediately be reached call 999.
- Inform other applicable management personnel.

Evacuation Protocol

- Stop work actions and relocate to identified muster point.
- Construction Manager or Site Manager, or designate, takes a census of personnel
- All personnel and any visitors to the site remain at muster point until accounted for by Construction Manager or Site Manager, or designate.
- Construction Manager or Site Manager, or designate, investigates any missing personnel and any visitors to the site.
- Call 999 to request Emergency Services, if required.

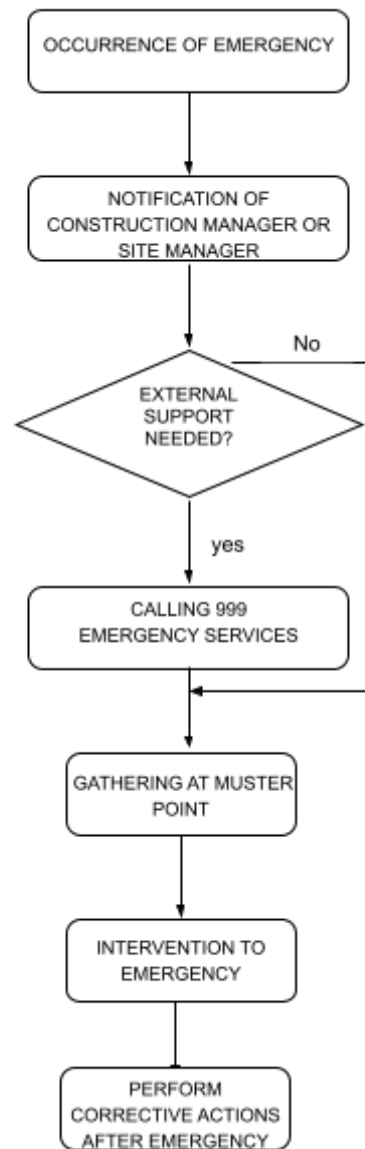
Post Emergency Actions and Reporting

Any incident or accident will be reported to the Construction Manager or Site Manager, or designate immediately. The scene of the emergency must be preserved until approval to resume normal operations is obtained from the relevant authorities. The Construction Manager or Site Manager, or designate, will subsequently investigate all reported events.

An accident investigation report shall be submitted to the applicable authorities, as required. Accidents involving the general public, fatalities, or that are considered a threat to public or environmental health shall be reported to the appropriate authorities with jurisdiction, as applicable.

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5. FLOWCHART SUMMARIZING EMERGENCY RESPONSE ACTIONS



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Attachment A: Emergency Contact Numbers

	TTE	GAP INSAAT
Project Manager	Marat Daminov 007 916 82 08 229	Sahin Recan 6657 9577
P401 Programm Manager	Andrey Karr 007 985 88 77 269	
HSE Manager	Marat Daminov 007 916 82 08 229	Guven Ozkaya 6662 7216
FIRST AID OR MINOR INJURY		
On-site First Aid	Roman Mukhin 007 921 92 55 486	Amadul Haque 6626 0581
EMERGENCY CONTACTS		
Emergency	Police/Hospital/Ambulance/Civil Defence: 999	
HOSPITALS & CLINIC		
Nearest Hospital	Al Shefa Hospital Emergency 4466 0330	

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Attachment B: Emergency Call Procedures

IN AN EMERGENCY, DIAL 9-9-9 TO ACCESS FIRE, POLICE OR AMBULANCE

When calling the 9-9-9 Emergency Dispatcher, remain calm, speak slowly and clearly.

Include the following information in your communication:

- State the project address;
- State the type of emergency (fire, medical, etc.);
- Stay on the phone until the responding agency releases you, answer all questions; and
- Advise the 9-9-9 Emergency Dispatcher if you need to evacuate the project.