كلية راس لفان للطوارئ والسلامة
RAS LAFFAN EMERGENCY & SAFETY COLLEGE

# RLESC PROSPECTUS

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# INTRODUCTION

Safety and emergency response have become fundamental in the oil and gas industry, as well as in other public and private sector industries, for their role in the protection of lives and assets. Based on this and prompted by the visionary directives of His Highness Sheikh Tamim Bin Hamad Al Thani, the Emir of the State of Qatar, [and His Excellency, the Prime Minister and Minister of Interior; Sheikh Abdulla Bin Nasser Bin Khalifa Al Thani] Qatar Petroleum and the Ministry of Interior have jointly established the Ras Laffan Emergency and Safety College.

The main objective of the college is the empowerment and development of human resources in the varied fields of safety, fire fighting, hazardous materials management, emergency response, maritime accidents, industrial fire hazards, search and rescue operations, defensive driving, civil aviation accidents and health, safety and environment.

The College provide vast training programs in association with TEEX which is a leading entity in the emergency response training and with university of central Lancashire (UCLAN) which provide education and skills in a broad range of fire related disciplines.

The college's programs use the latest technology and techniques to provide students with the fundamental knowledge and skills that would boost their careers, building their personal and professional capacities through a perfect blend of theory and practice in a unique environment.

**The main objective of the college is the empowerment and development of human resources in the varied fields of safety, fire fighting, hazardous materials management, emergency response, maritime accidents, industrial fire hazards, search and rescue operations, defensive driving, civil aviation accidents and health, safety and environment.**

**Enrolling in the RLESC will enable it to widen and develop its current and future degree granting programs.**

# FOREWORD BY THE PRESIDENT OF RLESC

On behalf of the College's Board of Directors, academic team and staff, I am pleased to welcome you, and to invite you to explore the training courses, utilities, facilities and modern training props that are available at Ras Laffan Emergency and Safety College.

Since its inception, the college has been committed to its vision and mission to be one of the leading educational institutions in the State of Qatar and MENA region. It contains the most state-of-the-art installations, facilities and equipment in the areas of training on fire fighting, rescue, safety, and quick response to emergencies and disasters. It also includes 30 full-size training mock-ups of buildings, industrial models, aircrafts and fuel tanks that are used to simulate a wide range of realistic scenarios and work conditions for emergencies and disasters. The superb campus boasts classes fully equipped with the most recent aid to teaching technologies, multi-purpose halls, administrative offices, making it a one of its kind, state-of-the-art and integrated educational platform in the MENA region. No effort and resources were spared to assist the college achieve its main objectives and provide a successful and outstanding academic experience for all, teachers, instructors and students alike, through a wide range of degree-granting, world accredited, academic programs and curricula in various disciplines, for all levels

**The college contains the most state of the art installations, facilities and equipment in the areas of training on fire fighting, rescue, safety, and quick response to emergencies and disasters. It includes 30 real scale, realistic props of buildings, facilities, aircrafts, plants and fuel tanks that are used to simulate a wide range of realistic scenarios and work conditions for emergencies and disasters.**

from beginners to professionals, which are detailed in this booklet. The RLESC has strived to attract excellent, highly experienced experts in their domains to make up its academic team, along with a dedicated administrative staff to maximize the quality of an educational output adapted to these fast evolving fields. Thanks to the college's quest for excellence and leadership, the efforts of its academic and administrative staff and the thirst for knowledge and ambition of its students, RLESC will remain a beacon in the boom witnessed in Qatar. Finally, whether you are seeking a unique educational experience, a sturdy knowledge in the science of safety and emergency, a certified and internationally recognized academic qualification or a practical training to keep up to date, the Ras Laffan Emergency and Safety College is the ideal address for you.

**President of Ras Laffan Emergency and Safety College**

# QATAR

- Qatar is imprinting a major footprint in the international political, social and economic spheres
- Qatar has also established itself as the centre of sports in the Middle East and North Africa
- In the world of arts and culture, Qatar's name resonates far and wide with The Museum of Islamic Arts, the Katara Village, the world-renowned Tribeca Film Festival, etc.
- Through Education City, Qatar's plans to create a knowledge based economy are being put to action through several world class universities that are nurturing the next generation of leaders
- With RLESC strategically located in Ras Laffan City, Qatar adds yet another important landmark in the Middle East's premier emergency and safety training facility

# RAS LAFFAN

RLIC, which is located 80 km northeast of Doha, is the base for all onshore operations to support the development and utilisation of Qatar's North Field gas assets, and commenced operations in 1996 by initially providing land, infrastructure and port facilities to Qatargas 1. Since then, RLIC has evolved into a world-class industrial city, facilitating the needs of the most technologically sophisticated natural gas-based industries.

RLIC provides industries with land, roads and common corridors for pipelines and other utilities' structures. The Port of Ras Laffan, which is the largest liquefied natural gas (LNG) export facility in the world, facilitates the marine export of all the hydrocarbons and sulphur produced by industries, the import of general cargo and the support of offshore production operations in the North Field. RLIC also provides various utilities to industries including desalinated water, potable water, power, telecoms, seawater through the common seawater facility, as well as municipal waste treatment and disposal. Other services include emergency response coordination, environmental monitoring, firefighting, medical, security and accommodation for the workforce.

The Ras Laffan Support Services Area (RSSA), which covers 3 million sq m and is located to the west of RLIC, has been developed for industries that provide support services for the oil, gas and petrochemical industries in Qatar and the region.

**The Port of Ras Laffan, which is the largest liquefied natural gas (LNG) export facility in the world, facilitates the marine export of all the hydrocarbons and sulphur produced by industries, the import of general cargo and the support of offshore production operations in the North Field.**

# RLESC

**"Qatar Petroleum (QP) and the Qatar Ministry of Interior (MOI) have established the Ras Laffan Emergency and Safety College (RLESC) to deliver training courses in Qatar and the MENA region under a signed agreement."**

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Texas A&M Engineering Extension Service (TEEX), a member ofthe Texas A&M University System, is responsible for delivering Internationally recognized Pro-Board certified, as well as non-certified training at the RLESC. Texas A&M Engineering Extension Service (TEEX) has over 80 years of experience in training emergency professionals. Today, TEEX trains more than 81,000 emergency responders in the USA and 45 countries each year.

RLESC provides training in the following fields:

- Fire Services
- Civil Defence
- Hazardous Materials
- Emergency Response
- Marine Fire Fighting
- Industrial Fire Fighting
- Search and Rescue
- Defensive Driving Training
- Civil Aviation

I. A World Class state of the art Fire and Emergency Safety Training College

II. The Middle East's leading fire and emergency training facility

III. A place where emergency responders, safety practitioners, and fire service professionals come to take their careers to the next level and beyond

IV. Renowned for recreating realistic training scenarios

V. The perfect training and support institution for a wide range of industries and agencies in the private and public sectors

## OUR CAMPUS

At RLESC we include a full campus and our facilities rate as some of the most sophisticated in fire and emergency management training. The College boasts 30 of the most advanced training props, including a 119 burner systems that can be used to create a wide range of realistic fire scenarios.

Fire props and the burner systems are managed by a state-of-the-art computerized system that has an emergency shutdown mechanism that protects trainees. With this, RLESC's fire training is amongst the safest in the world.

With the capacity to train 300 students at a time, RLESC includes: 6-bay fire station with fire emergency training an emergency vehicle driver training track and a driver simulator.

A campus building, Classrooms (12 indoor and 9 outdoor), offices, a 100-seat auditorium, conference rooms, mosque, 300-seat dining hall, Control Tower parade ground with VIP stand, LNG research center and controlled gates.

**"The College boasts 30 of the most advanced training props, including a 119 burner systems that can be used to create a wide range of realistic fire scenarios"**

# FACILITIES

## Facility Features

- The facility is jointly designed by QP/Texas A&M Engineering Extension Service to be one of the largest and most advanced Training facilities in the World
- 100 hectare plot
- Zone layout concept
  - Academic area
  - Non burn training area
  - Active burn training area
  - Utility area
- Zone layout optimized for safety and access control
  - Campus complex
  - Training props
  - Self contained utility systems

## Self Contained Utilities

- Training water treatment plant 2,722 m per day Capacity
- On-plot water storage (55.2 km)
- 12,000 us GPM training water supply
- 260m LPG storage
- 418m GASOLINE storage
- Gasoline & diesel for vehicles
- SIS & scada control & monitoring systems
- 4 on-plot HV substations


Mosque
Teaching Theater
Laboratory
Classrooms
Cafeteria
Kitchen
Office Building


Campus Bird's Eye View

# TRAINING PROVIDER

TEXAS A&M ENGINEERING

TEEX

EXTENSION SERVICE

**Founded in 1929 when the State Firemen's and Fire Marshals' Association of Texas selected Texas A&M University as the site for a permanent firefighter training school.**

- Texas A&M Engineering Extension Service, RLESC's training associate
- A member of the Texas A&M University System
- One of the largest and most complex systems of higher education in the United States
- RLESC courses are accredited by the National Board of Fire Service Professional Qualifications (ProBoard)
- Texas A&M Engineering Extension Service trains over 80,000 emergency responders annually. ProBoard is an internationally recognised professional certification entity for emergency service related National Fire Protection Association's (NFPA's) professional qualification standards. Texas A&M Engineering Extension Service is a ProBoard accredited agency.

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# TRAINING COURSES


# NFPA 472
# HAZARDOUS MATERIALS AWARENESS TRAINING
# QTR 201 – 3 Days

**Description**

This course meets the National Fire Protection Association (NFPA) 472 Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents Chapter 4, "Competencies for Awareness Level Personnel and Code of Federal Regulations (CFR) 1910.120 (q)(6)(i) for Awareness-level personnel.

Upon completion of this course, you are eligible to take the National Board on Fire Service Professional Qualifications (Pro Board) written exam for NFPA Chapter 4 Competencies for Awareness-level personnel. The exam is provided at the end of training.

## Prerequisite
There are no prerequisites for this class

## Topics
- Analyze the incident
- Detect the presence of Hazardous Materials (HazMat)/Weapons of Mass Destruction (WMD)
- Survey a HazMat/WMD incident from a safe location
- Collect hazard information from the current edition of the Department of Transportation (DOT) Emergency Response Guidebook (ERG)
- Implement the response
- Initiate protective actions
- Initiate the notification process

## Audience
Personnel who could encounter an emergency involving hazardous materials/weapons of mass destruction. Includes those who are expected to recognize the presence of the HazMat/WMD, protect themselves, call for trained personnel, and secure the area.

## Requirements
Bring a picture ID for the Pro Board certification exam.

# NFPA 472
# HAZARDOUS MATERIALS OPERATONS TRAINING
# QTR 202 – 5 Days

## Description

This course meets or exceeds the National Fire Protection Association (NFPA) 472 Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents Chapter 5, "Core Competencies for Operations Level Responders," and Chapter 6.2, "Mission-Specific Competencies: Personal Protective Equipment," and Code of Federal Regulations (CFR) 1910.120 (q)(6)(ii) for Operations-level personnel.

Upon completion of this course, you are eligible to take the National Board on Fire Service Professional Qualifications (Pro Board) written exam and skills testing for NFPA Chapters 5 and 6.2 competencies for Operations-level personnel.

This course consists of both classroom and field exercises.

## Prerequisite

- Completion of training for all competencies of NFPA 472 Chapter 4, "Competencies for Awareness-Level Personnel."

## Topics

- Analyze the incident
- Detect the presence of Hazardous Materials (HazMat)/Weapons of Mass Destruction (WMD)
- Determine scope of the problem
- Determine potential outcomes
- Plan a response
- Capabilities of Operations-level personnel
- PPE/Identifying/Donning/Doffing/Working in/ Hazards
- Implement the response
- Establish Control Zones/Emergency Decontamination/Communications
- Implement protective actions
- Perform operations level tasks
- Evaluate Progress
- Communicate Status

## Audience

Personnel who respond to emergencies involving hazardous materials/weapons of mass destruction for the purpose of protecting nearby persons, the environment, or property from the effects of the release.

## Requirements

**Personal Protective Equipment (PPE)**

- PPE Level 2 as described in the RLESC Student Safety Manual.
- All students are required to follow the RLESC Student Safety Manual at all times.

## Recommended

Due to the strenuous nature of class activities, participants should secure a professional evaluation of their physical condition prior to enrolling in this course.


# NFPA 472
# HAZARDOUS MATERIALS TECHNICIAN TRAINING
# QTR 204 – 10 Days

**Description**

This course meets or exceeds the qualifications for National Fire Protection Association (NFPA) 472 Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents Chapter 7, "Competencies for Hazardous Materials Technicians," and Code of Federal Regulations (CFR) 1910.120 (q)(6)(iii) for Technician-level personnel. Upon completion of this course you are eligible to take the National Board on Fire Service Professional Qualifications (Pro Board) written exam and skills testing for NFPA 472 Chapter 7.

## Prerequisite

Students must be trained to the Operations level to receive Pro-Board certification at the end of the HazMat Technician course. Proof of Operations level training must be submitted prior to the end of class. Please click on the additional information link to see the requirement for submitting proof of operations level training. The written and skills testing must receive a passing score in order to receive a Pro Board certificate.

## Topics

- Analyze the incident
- Collect and interpret hazard and response information
- Determine scope of the problem
- Describe type and extent of damage to containers
- Predict the behavior of released materials and containers
- Estimate the size of endangered area
- Plan a response
- Describe response objectives and options
- Select Personal Protective Equipment (PPE) for action options
- Select technical decontamination process
- Develop a site safety plan
- Implement the response
- Perform duties of Hazmat position within Incident Command Systems (ICS)
- Don, doff, and work in Technician-level PPE
- Perform Offensive control options
- Perform decon functions
- Evaluate effectiveness of control functions
- Evaluate effectiveness of decon
- Terminating the Incident
- Incident debrief and critique
- Reports and documentation
- A, B, & C Chlorine Kits
- MC306/406 Dome Clamp with Grounding and Bonding
- Level A Dress out with Self-Contained Breathing Apparatus (SCBA)
- Drum leak repair and overpacking
- Instrumentation laboratory

## Audience

Personnel who respond to emergencies involving Hazardous Materials (HazMat)/Weapons of Mass Destruction (WMD) for the purpose of analyzing the incident, selecting appropriate PPE and decontamination procedures, and implementing action options to mitigate the incident.

## Requirements

Students must be trained to the Operations level to receive Pro Board certification at the end of the HazMat Technician course.

## Recommended

Due to the strenuous nature of class activities, participants should secure a professional evaluation of their physical condition prior to enrolling in this course.

# NFPA 472
# HAZARDOUS MATERILAS INCIDENT COMMAND TRAINING
# QTR 205 – 3 Days

**Description**

This course meets or exceeds the National Fire Protection Association (NFPA) 472 Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents Chapter 8, "Competencies for Incident Commanders," and Code of Federal Regulations (CFR) 1910.120 (q)(6)(iv) for Incident Command-level personnel. Participants who successfully complete the course and pass the required written and skills tests receive a National Board on Fire Service Professional Qualifications (Pro Board) certification.

## Prerequisite

Proof of completion of training for all competencies at the Operations Level (NFPA 472 Chapter 5 Core Competencies)

## Topics

- Analyze the incident
- Plan a response
- Approve response objectives and options
- Approve Personal Protective Equipment (PPE) for action options
- Develop an Incident Action Plan (IAP
- Develop a site safety plan
- Implement the response
- Implement Incident Command Systems (ICS)
- Direct resources
- Information transfer
- Evaluate effectiveness of control functions
- Evaluate effectiveness of decon
- Terminating the incident
- Incident debrief and critique
- Reports and documentation
- Transfer of Command

## Audience

Personnel who respond to emergencies involving Hazardous Materials (HazMat)/Weapons of Mass Destruction (WMD) as an Incident Commander and who will be responsible for all incident activities, including the development of strategies and tactics and the ordering and release of resources.

## Requirements

### Personal Protective Equipment

- This course requires PPE Level 1 as described in RLESC Student Safety Manual.
- All students are required to follow this manual at all times.
- You must wear regular work attire for training activities and classroom sessions.
- You may not wear shorts, sleeveless shirts, or open-toed shoes to any class or field activity.

# NFPA 472
# AIR MONITORING FOR HAZARDOUS MATERIALS OPERATIONS / MISSION SPECIFIC TRAINING
# QTR 206 - 5 Days

## Description

This course meets or exceeds the National Fire Protection Association (NFPA) 472 Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents Chapter 6.7, "Mission-Specific Competencies: Air Monitoring and Sampling," for Operations-level personnel. Participants who successfully complete the course and pass the required written and skills tests receive a National Board on Fire Service Professional Qualifications (Pro Board) certification.

## Prerequisite

Proof of completion of training for NFPA 472 Operations Level

- Chapter 5, "Core Competencies for Operations-Level Responders,"
- Chapter 6.2, "Mission-Specific Competencies: Personal Protective Equipment."

## Topics

- Plan the response
- Plan air monitoring and sampling activities
- Describe air monitoring options at the operations level
- Implement the response
- Implement air monitoring options and sampling activities

## Audience

Operations-level personnel assigned to implement air monitoring and sampling operations at a Hazardous Material (HazMat)/Weapons of Mass Destruction (WMD) incident.

## Requirements

### Personal Protective Equipment (PPE)

- PPE Level 2 as described in the RLESC Student Safety Manual.
- All students are required to follow the RLESC Student Safety Manual at all times.

## Recommended

Due to the strenuous nature of class activities, participants should secure a professional evaluation of their physical condition prior to enrolling in this course.

# HAZARDOUS MATERIALS PIPELINE EMERGENCY RESPONSE TECHNICIAN TRAINING
# QTR 300 – 10 Days

**Description**

The Pipeline Emergencies course is designed in a modular format.

The entire course consists of a 40-hour program that addresses:

- pipeline awareness
- pipeline operations
- pipeline emergency response

## Prerequisite
There are no prerequisites for this class

## Topics
- Pipeline emergency response operations
- Hands on training to pipeline emergencies
- Identification of hazardous materials
- Develop incident action plans
- Incident Command System, National Incident Management System (NIMS)
- Regulatory factors
- Transmission and distribution systems
- Below and above ground equipment
- Pipeline safety programs
- Inspection
- Mapping systems
- Equipment identification
- Pipeline markings
- Management resources and manpower

## Audience
Those who may potentially be involved in managing and mitigating pipeline emergencies, including:
- Pipeline operators
- Emergency responders
- Law enforcement
- Local officials
- Command staff

## Requirements
**Personal Protective Equipment**

This course requires Personal Protective Equipment (PPE) Level 2 as described in the RLESC Student Safety Manual. All students are required to follow this manual at all times. You must wear regular work attire (including safety shoes, hard hat, work gloves, and eye protection) for training activities and classroom sessions. You may not wear shorts, sleeveless shirts, or open-toed shoes to any class or field activity.

## Recommended
Due to the strenuous nature of class activities, participants should secure a professional evaluation of their physical condition prior to enrolling in this course.

# NFPA 472
# HAZARDOUS MATERIALS PRODUCT CONTROL TRAINING
# QTR 203 – 4 Days

**Description**

This course meets or exceeds the National Fire Protection Association (NFPA) 472 Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents Chapter 6.6, "Mission-Specific Competencies: Product Control," for operations-level personnel. You will engage in practical, hands-on defensive product control action options that include diking, retention, absorption, diversion, and vapor suppression.

Participants who successfully complete the course and pass the required written and skills tests receive a National Board on Fire Service Professional Qualifications (Pro Board) certification.

## Prerequisite

Completion of training for all competencies of NFPA 472 Chapter 5, "Core Competencies for Operations Level Responders," and Chapter 6.2, "Mission-Specific Competencies: Personal Protective Equipment."

## Topics

- Procedures For Technical Decontamination
- Plan the Response
- Describe Control Options for Hazardous Material (HazMat) incidents
- Describe Control Options for flammable liquid and flammable gas incidents
- Implement the response

## Audience

Operations-level personnel assigned to implement product control measures at HazMat/Weapons of Mass Destruction (WMD) incidents.

## Requirements

**Personal Protective Equipment**

This course requires Personal Protective Equipment (PPE) Level 2 as described in RLESC Student Safety Manual You must wear regular work attire, including safety shoes, for training activities and classroom sessions. You may not wear shorts, sleeveless shirts, or open-toed shoes to any class or field activity.

## Recommended

Due to the strenuous nature of class activities, participants should secure a professional evaluation of their physical condition prior to enrolling in this course.

# NFPA 1001 FIREFIGHTER I QTR 101 – 11 weeks

**Description**

Upon successful completion of this course, participants will have the knowledge and skills that meet and exceed NFPA 1001, Standard for Firefighter Professional Qualifications (2013 edition), Firefighter I (Chapter 5).

Participants who successfully complete the course and pass the required written and skills tests receive a National Board on Fire Service Professional Qualifications (Pro Board) certification.

## Prerequisite

Completion of training for all competencies of NFPA 472 Chapter 5, "Core Competencies for Operations Level Responders," and Chapter 6.2, "Mission-Specific Competencies: Personal Protective Equipment." Firefighter I

## Topics

- Forcible entry
- Portable fire extinguishers
- Rope, knots and hitches
- Fire service hose
- Fire service overhaul
- Fire service salvage
- Fire streams and hydraulics
- Fire apparatus/pump operations
- Inspections
- Incident command systems
- Fire protection systems
- Fire science
- Public transportation
- Hazardous materials
- Reports and records
- Self-Contained Breathing Apparatus (SCBA)
- Personal protective clothing
- Firefighter safety
- Pre-incident planning
- Building construction

## Audience

Individuals seeking employment as a firefighter in a civil defense or refinery fire department.

## Requirements

### General Requirements

- You must be 18 years of age or older.
- You must possess at least a high school diploma or GED certificate.
- You must possess and maintain a valid motor vehicle driver's license with no pending actions of suspension or revocation.

### Personal Protective Equipment (PPE) Requirements

- This course requires PPE Level 4 as described in the RLESC Student Safety Manual. All students are required to follow this manual at all times.
- The PPE ensemble shall include the following elements: National Fire Protection Association (NFPA)-approved structural firefighting helmet with face shield, NFP Aapproved firefighting hood, NFPA-approved structural firefighting boots, NFPA-approved firefighting gloves, NFPA-approved Structural firefighting bunker coat, and NFPA-approved structural firefighting bunker pants.

## Recommended

Due to the strenuous nature of class activities, participants should secure a professional evaluation of their physical condition prior to enrolling in this course.

# NFPA 1001 FIREFIGHTER II QTR 102 - 4 weeks

**Description**

Upon successful completion of this course, participants will have the knowledge and skills that meet and exceed NFPA 1001, Standard for Firefighter Professional Qualifications (2013 edition), Firefighter II (Chapter 6).

## Prerequisite
NFPA 1001 Fire fighter I

## Topics
- Forcible entry
- Rope, knots and hitches
- Fire apparatus/pump operations
- Inspections
- Incident command systems
- Public transportation
- Emergency driving
- Emergency service communications
- Public relations and safety education
- Reports and records
- Wildland fire suppression
- Fire cause determination
- Pre-incident planning

## Audience
Individuals seeking employment as a firefighter in a civil defense or refinery fire department.

## Requirements
### General Requirements
- You must be 18 years of age or older.
- You must possess at least a high school diploma or GED certificate.
- You must possess and maintain a valid motor vehicle driver's license with no pending actions of suspension or revocation.

### Personal Protective Equipment (PPE) Requirements
This course requires PPE Level 4 as described in the RLESC Student Safety Manual. All students are required to follow this manual at all times. The PPE ensemble shall include the following elements: National Fire Protection Association (NFPA)-approved structural firefighting helmet with face shield, NFPAapproved firefighting hood, NFPA-approved structural firefighting boots, NFPA-approved firefighting gloves, NFPA-approved structural firefighting bunker coat, and NFPA-approved structural firefighting bunker pants.

## Recommended
Due to the strenuous nature of class activities, participants should secure a professional evaluation of their physical condition prior to enrolling in this course.

# NFPA 1002
# DRIVER / OPERATOR – PUMPER
# QTR 151 – 10 Days

**Description**

This course is designed to provide you with the skills and knowledge required for certification to Driver/Operator-Pumper as described in Chapters 4 and 5 of the National Fire Protection Association (NFPA) 1002, Standard for Fire Apparatus Driver/Operator Professional Qualifications (2009 ed.).

Upon successful completion of this course, you will be able to operate a fire department pumper during emergency situations. The course is designed around classroom lectures and field evolutions covering such activities as relay pumping, drafting, foam operations, apparatus maintenance, and driving.

## Prerequisite

- Firefighter I (NFPA 1001)
- Interior or Exterior Industrial Fire Brigade (NFPA 1081)

## Topics

- Apparatus inspections/maintenance
- Driving practices
- Fire service hydraulics
- Pump operations
- Pump operations course
- Pump operations using foam
- Pump operations/hydraulics
- Pump terminology
- Pump theory
- Relief valves/pressure governors/primers
- Types of gauges
- Water supplies

## Audience

- Military, Civil Defense and Industrial Firefighters

## Requirements

For Pro Board certification, you must be certified to the following standards prior to the completion of this course:

- Firefighter I (NFPA 1001)
- Interior or Exterior Industrial Fire Brigade

# NFPA 1002
# DRIVER / OPERATOR - AERIAL
# QTR 152 – 10 Days

**Description**

This course is designed to provide you with the skills and knowledge required for certification to Driver/Operator-Aerial as described in Chapters 4 and 6 of the National Fire Protection Association (NFPA) 1002, Standard for Fire Apparatus Driver/Operator Professional Qualifications (2009 ed.).

Upon successful completion of this course, you will be able to operate an aerial apparatus during emergency situations. You will have the opportunity to practice apparatus operations, aerial positioning and stabilization, and aerial tactics. In addition, participants who successfully complete the course and pass the written and skills test will receive a National Board on Fire Service Professional Qualifications (Pro Board) national certification.

## Prerequisite

- NFPA1001 Fire Fighter I
- NFPA 1002 Driver/Operator- Pumper

## Topics

- Aerial terminology
- Company truck operations
- Controls and valves of aerial apparatus
- Extreme operating conditions
- Hydraulics systems on aerial apparatus
- Raising and lowering with aerial apparatus
- Safety rules for aerial apparatus
- Stabilizing aerial apparatus
- Standpipe operations
- Techniques of spotting aerial apparatus
- Tool requirements
- Water tower operations
- Working angles with aerial apparatus

## Audience

- Military and Department of Defense (DoD Firefighters
- Municipal Firefighters
- Industrial Firefighters

## Requirements

For Pro Board certification, you must be certified to the following standards prior to the completion of this course:

- Driver/Operator Pumper (NFPA 1002)

# NFPA 1002
# DRIVER / OPERATOR - ARFF
# QTR 410 – 10 Days

## Description

This course is designed to provide you with the skills and knowledge required for certification to Driver/Operator-Aircraft Rescue Firefighting (ARFF) as described in Chapter 9 of National Fire Protection Association (NFPA) 1002, Standard for Fire Apparatus Driver/Operator Professional Qualifications (2009 ed.).

Upon successful completion of this course, you will be able to operate an ARFF apparatus during emergency situations. You will have the opportunity to practice apparatus operations, apparatus positioning, maintenance, and strategy and tactics.

In addition, participants who successfully complete the course and pass the written and skills test will receive a National Board on Fire Service Professional Qualifications (Pro Board) certification.

## Prerequisite

- Firefighter II (NFPA 1001)
- Driver/Operator Pumper (NFPA 1002)
- Airport Firefighter (NFPA 1003)

## Topics

- ARFF Airport familiarization
- ARFF Apparatus
- ARFF Communications
- ARFF Driver operator
- ARFF Extinguishing Agents
- ARFF Operations
- ARFF Safety
- ARFF Strategy and Tactics

## Audience

This course is designed for individuals who provide fire services protection at airports. This may include:

- Military and Department of Defense (DoD) Firefighters
- Municipal Firefighters

## Requirements

For Pro Board certification, you must be certified to the following standards prior to the completion of this course.

- Firefighter II (NFPA 1001)
- Driver Operator Pumper (NFPA 1002)
- Airport Firefighter (NFPA 1003)

# NFPA 1003 AIRPORT FIREFIGHTER QTR 401 – 10 Days

**Description**

This course is designed to provide you with the skills and knowledge required for certification to Aircraft Rescue and Fire Fighting (ARFF) as described in Chapter 9 of the National Fire Protection Association (NFPA) 1003, Standard for Airport Fire Fighter Professional Qualifications (2010 ed.). The course also covers the eleven subject matters required by the Federal Aviation Administration (FAA) Federal Aviation Regulation (FAR) § 139.319 (j)(2) Aircraft Rescue and Firefighting: Operational Requirements.

Upon successful completion of this course, you will be able to work as an airport firefighter. The class consists of classroom, tabletop scenarios, and hands-on tactics and strategy training.

Participants who successfully complete the course and pass the written and skills test and meet all prerequisites are eligible to test for the National Board on Fire Service Professional Qualifications (Pro Board) certification.

## Prerequisite

### Certification

For Pro Board certification, you must provide documentation showing certification to the following standards prior to the completion of this course.

- Firefighter I and II

## Topics

- Airport familiarization
- Aircraft familiarization
- Rescue and firefighting personnel safety
- Airport communications
- ARFF equipment
- Emergency aircraft evacuation
- ARFF tactics and strategies
- Use of structural apparatus for ARFF
- Aircraft dangerous goods
- Airport emergency plan
- 100 & 400 fuel fire
- 8,100 sq.ft. fuel fire using ARFF Vehicle
- 3-dimensional aircraft fuel fire
- Engine/Auxiliary Power Unit (APU) fire
- Aircraft wheel brake assembly fire
- Interior aircraft fire
- Aircraft ventilation
- Aircraft victim rescue
- Aircraft scene overhaul
- Replenishing extinguishing agent

## Audience

This course is designed for individuals who provide fire services protection at airports. This may include:

- Military and Department of Defense (DoD) Firefighters
- Civil Defense/Municipal Firefighters

## Requirements

### PPE

- This course requires Personal Protective Equipment (PPE) Level 4 as described in the RLESC Student Safety Manual. All students are required to follow this manual at all times.
- You must wear regular station duty wear for fire field activities and office attire for classroom sessions. You may not wear shorts, sleeveless shirts, or open-toed shoes to any class or field activity.

## Recommended

Due to the strenuous nature of class activities, participants should secure a professional evaluation of their physical condition prior to enrolling in this course.

# NFPA 1006
# ROPE RESCUE LEVEL I
# QTR 601 – 7 Days

**Description**

This course is designed to provide you with the skills and knowledge required to perform basic rope rescue operations utilizing appropriate equipment, methodologies, protocols, and patient and resource management techniques.

The course covers Chapter 6, “Rope Rescue” of the National Fire Protection Association (NFPA) 1006, Standard For Technical Rescuer Professional Qualifications (2008 edition), including the area of multipoint anchors, rappelling systems, and ascending systems.

Participants who successfully complete the course and pass the required written and skills test receive a National Board on Fire Service Professional Qualifications (Pro Board) certification.

## Prerequisite
There are no prerequisites for this class

## Topics
- Size up
- Site Operations
- Rescue Equipment and Maintenance
- Knot Tying
- Medical Considerations in Search and Rescue Operations
- Patient Packaging
- Anchor Systems
- Belay Systems
- Lowering Systems
- Lowering System Exercises
- Hauling Systems
- Low Angle Rescue
- Rappelling Systems
- Ascending Systems

## Audience
For all emergency response personnel involved with technical rescue incident response, and is designed to meet the training requirements of NFPA 1006 Chapters 5 and 6, "Job Performance Requirements (JPR)" (2008).

## Requirements
**Personal Protective Equipment (PPE)**

- You will need to bring your own PPE Level 2 compliant with the RLESC Student Safety Manual.
- All students are required to follow the RLESC Student Safety Manual at all times.

***PPE Level 2 includes:***

- Rescue helmet with a chin strap with 3-point attachment
- Rope rescue gloves, all-leather work gloves
- Eye protection
- Approved safety toe boots

## Recommended
Due to the strenuous nature of search and rescue activities, you should secure a professional evaluation of your physical condition prior to enrolling in this course.

# NFPA 1006
# ROPE RESCUE LEVEL II
# QTR 602 – 7 Days

## Description

This course is designed to provide you with the skills and knowledge required to receive certification for Chapter 6.2. “Rope Rescue Level II,” as described in the National Fire Protection Association (NFPA) 1006, Standard for Technical Rescuer Professional Qualifications (2008 edition).

The course covers the areas of multipoint anchors, compound Mechanical Advantages (MA), highline systems, and pick-off systems.

Participants who successfully complete the course and pass the required written and skills test receive a National Board on Fire Service Professional Qualifications (Pro Board) certification.

## Prerequisite

The participant must submit the following course certification requirement on the first day of class to be eligible for participation:

- Rope Rescue Level I (NFPA 1006)

## Topics

- Pickoff Rescue Techniques
- Highline Systems
- High Angle Litter Attendant

## Audience

This course is designed for all municipal and industrial firefighters, as well as any other personnel involved with technical rescue incident response, and is designed to meet the training requirements of NFPA 1006 Chapter 6.2, "Level II General Requirements."

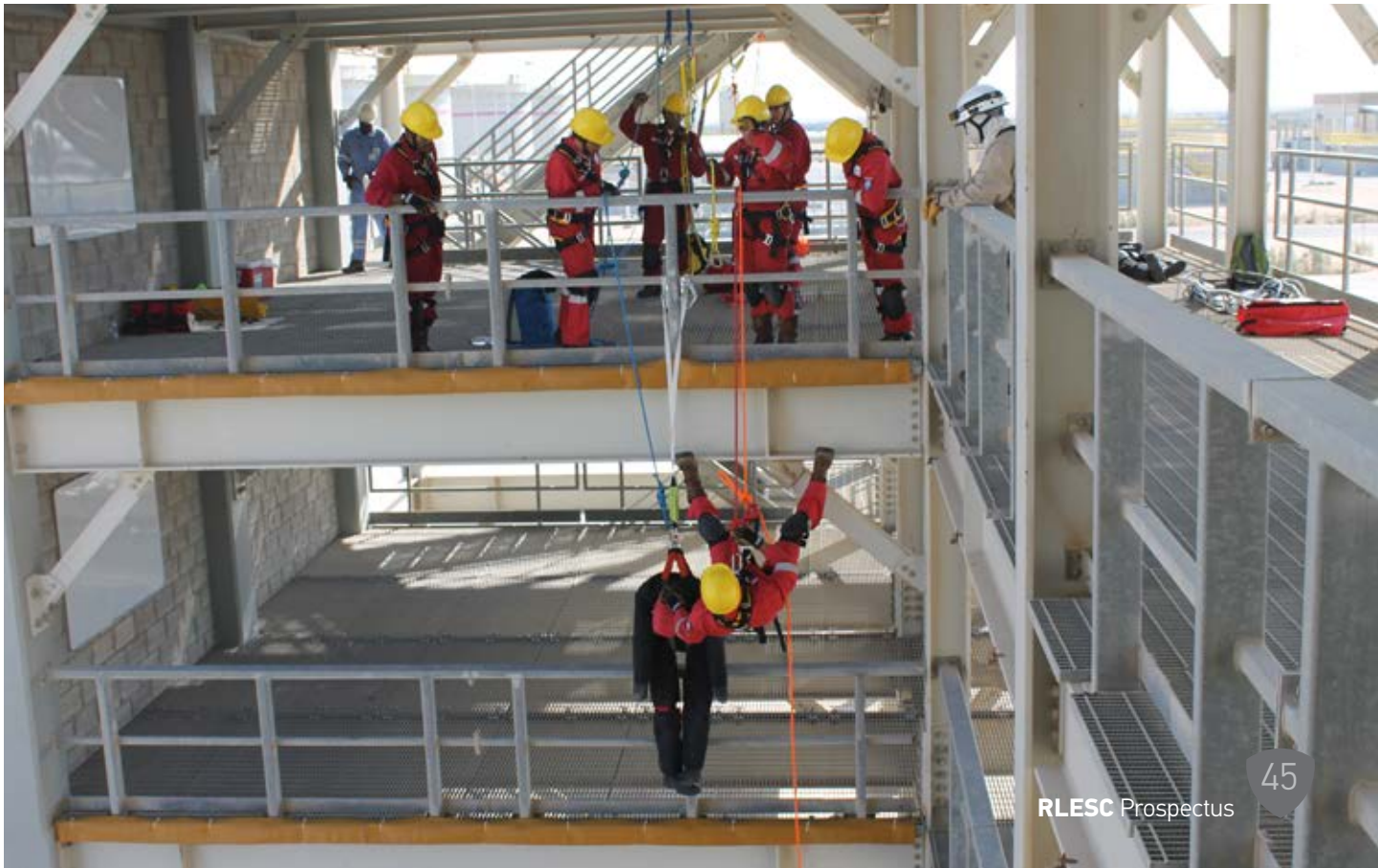
## Requirements

### Personal Protective Equipment (PPE)

- You will need to bring your own PPE Level 2 compliant with the RLESC Student Safety Manual.
- All students are required to follow the RLESC Student Safety Manual at all times.

***PPE Level 2 includes:***

- Rescue helmet with a chin strap with 3-point attachment
- Rope rescue gloves, all-leather work gloves
- Eye protection
- Approved safety toe boots



# NFPA 1006
# CONFINED SPACE RESCUE LEVELS I & II TRAINING
# QTR 603 – 7 Days

**Description**

This course is designed to provide you with the skills and knowledge required for certification to Chapter 7, "Confined Space Rescue" as described in National Fire Protection Association (NFPA) 1006, Standard for Technical Rescuer Professional Qualifications (2008 edition).

The course covers the areas of confined space rescue operations, utilizing appropriate equipment, methodologies, protocols, and patient and resource management techniques. Participants who successfully complete the course and pass the required written and skills test will receive a National Board of Fire Service Professional Qualifications (Pro Board) certification. The course also covers valuable information about confined-space entry related to Occupational Safety and Health Administration (OSHA), NFPA, and American National Standards Institute (ANSI) standards and compliance issues. The curriculum meets and exceeds requirements for rescue training in accordance with OSHA 29 CFR 1910.146 "Permit Required Confined Spaces for General Industry."

## Prerequisite

Participants must pass the NFPA 1006 Chapter 5, "Job Performance Requirements" portion of the written exam to receive Level I and II certification. Participants must pass Level I to receive certification for Level II.

Rope Rescue Level I certification, NFPA 1006 Standard For Technical Rescuer professional Qualifications, Chapter 6.

## Topics

- Knot Tying
- Patient Packaging
- Hauling Systems
- Lowering Systems
- Applicable Federal Regulations
- Confined Space Hazards
- Atmospheric Monitoring
- Hazard Control And Personal Protective Equipment (PPE)
- Confined Space Rescue Without Atmospheric Hazards
- Confined Space Rescue with Atmospheric Hazards

## Audience

All municipal and industrial firefighters, as well as any other personnel involved with technical rescue incident response, and is designed to meet the training requirements of NFPA 1006 Chapter 7.

## Requirements

**Personal Protective Equipment (PPE)**

- You will need to bring your own PPE Level 2 compliant with the RLESC Student Safety Manual.
- All students are required to follow RLESC Student Safety Manual at all times.

***PPE Level 2 includes:***

- Rescue helmet with a chin strap with 3-point attachment
- Rope rescue gloves, all-leather work gloves
- Eye protection
- Approved safety toe boots

## Recommended

Due to the process of skills and written testing, you must have completed NFPA 1006 Chapter 5 General Requirement Training. You must pass the NFPA 1006 Chapter 5, "Job Performance Requirements" portion of the written exam to receive Level I and II certification. Due to the nature of this training, a physical examination is recommended prior to this course.


# NFPA 1006
# VEHICLE & MACHINERY RESCUE I TRAINING
# QTR 654 – 5 Days

**Description**

The course covers vehicle and machinery rescue operations utilizing appropriate equipment, methodologies, protocols, and patient and resource management techniques.

## Prerequisite
There are no prerequisites for this class

## Topics
- Emergency Medical Service Rescue Considerations
- Incident Management & Safety
- Tools & Equipment
- Vehicle /Machinery Extrication Principles
- Vehicle/Machinery Anatomy
- Vehicle/Machinery Stabilization

## Audience
For municipal and industrial emergency response personnel who may be required to perform vehicle or machinery rescue, including fire prevention, suppression, control, and safety personnel.

## Requirements
### Personal Protective Equipment (PPE)
- You will need to bring your own PPE compliant with the RLESC Student Safety Manual.
- All students are required to have PPE compliant with one of the following:
  - NFPA 1971 Structural Firefighting Ensemble
  - NFPA 1977 Wildland Firefighting Ensemble
  - NFPA 1951 Technical Rescue Ensemble

In addition to coats and pants, these ensembles include:
- Fire helmet/rescue helmet with a chin strap
- Gloves (all-leather work gloves, firefighting gloves, or vehicle extrication gloves)
- Eye protection (ANSI Z87.1)
- Approved safety toe boots or firefighting boots

## Recommended
Due to the nature of this training, a physical examination is recommended prior to this course.

# NFPA 1021
# FIRE OFFICER I – PRO BOARD CERTIFICATION
# QTR 131 – 5 Days

**Description**

This course is designed for the first-line company officer/supervisor. The Fire Officer I course satisfies the requirements of the National Fire Protection Association (NFPA 1021), Chapter 4 and provides the tools necessary to obtain certification through National Board on Fire Service Professional Qualifications (Pro Board).

It is designed around classroom lectures and group exercises to improve your abilities to manage a single fire company. This includes responsibilities such as the development of an Incident Action Plan (IAP), personnel management and mentoring, and community relations.

## Prerequisite

### Certification

For Pro Board certification only, these requirements must be met prior to the completion of this course:

- NFPA 1001 (Firefighter II)
- NFPA 1041 (Fire Instructor I)

## Topics

- Role of the Fire Officer
- Public Relations
- Recognizing & Managing Cultural Diversity
- Safety & Wellness of Fire Personnel
- Management within Organizational Structure
- Community Awareness
- Building Construction
- Incident Command System (ICS)
- Fire Officer Responsibilities in Compliance & Accountability
- Fire Safety Education
- Functional Leadership
- Fire Cause Determination
- Problem Solving
- Performance Appraisals
- Effective Communication Skills
- Strategy & Tactics

## Audience

- Military and Department of Defense (DoD) Firefighters and Officers
- Municipal Firefighters and Officers
- Volunteer Firefighters and Officers

## Requirements

### Dress Code

For this course, duty uniform or business casual dress is required.

# NFPA 1021
# FIRE OFFICER II – PRO BOARD CERTIFICATION
# QTR 132 – 5 Days

**Description**

This course is designed to meet the needs of the mid-level officer/supervisor. The Fire Officer II course satisfies the requirements of the National Fire Protection Association (NFPA) 1021, Chapter 5 and provides the tools necessary to obtain certification through National Board on Fire Service Professional Qualifications (Pro Board).

It is designed around classroom lectures and group interactive exercises to improve your abilities to manage multiple fire companies. This includes responsibilities such as strategic planning and operations, personnel development, and organizational communications.

## Prerequisite

### Certification

For Pro Board certification only, these requirements must be met prior to the completion of this course.

- NFPA 1021 (Fire Officer I)
- NFPA 1041 (Fire Instructor I)

## Topics

- Budgetary process
- Fire safety inspection
- Health and safety
- Human resource management
- Information management systems
- Managing affirmative action
- Organizational communication
- Public fire education
- Specialized fire protection equipment
- Strategic Planning
- Superior and subordinate interaction
- Working with government agencies

## Audience

- Current or Future Mid-Level Officers
- Military and Department of Defense (DoD) Firefighters and Officers
- Municipal Firefighters and Officers
- Volunteer Firefighters and Officers

## Requirements

### Dress Code

For this course duty uniform is required.

# NFPA 1041
# FIRE INSTRUCTOR I TRAINING
# QTR 121 – 5 Days

**Description**

This course is designed to meet the needs of entry-level fire and emergency service instructors. The course meets or exceeds the job performance requirements in National Fire Protection Association (NFPA) 1041, Standard for Fire Service Instructor Professional Qualifications, Chapter 4. The target audience for this course includes the Department of Defense (DoD), Industrial Brigade and/or Civil Defense personnel.

The Fire Instructor I course provides the tools necessary to obtain certification through the National Professional Qualifications System (Pro Board). The course is formatted around classroom lectures, group activities, and individual presentations.

## Prerequisite
Microsoft Word and Microsoft Power Point

## Topics
- Overview of instructor and student profiles
- Introduction to learning theories
- Use of instructional materials and media
- Maintaining student records and reports
- Techniques to communicate effectively
- Arranging the learning environment
- Overview of legal considerations of education
- Group activities and individual presentations

## Audience
All emergency response personnel, including fire prevention, suppression, control and safety personnel

## Requirements
- Preregistration Required.
- You must bring a laptop or tablet with Microsoft Office (or compatible software).

### Personal Protective Equipment
- This course requires Personal Protective Equipment (PPE) Level 0 as described in the RLESC Student Safety Manual. All students are required to follow this manual at all times.
- You must wear:
  - regular work attire for training activities and classroom sessions.
- You may not wear to any class or field activity:
  - Shorts
  - Sleeveless shirts
  - Open-toed shoes

### Certification
- You must present a photo I.D. before the written test.
- To receive ProBoard certification, you must successfully complete the required practical assessment and written ProBoard exam.

## Recommended
As a part of the course, you will be required to modify a lesson in PowerPoint format; therefore it is recommended that you have working knowledge of computers and a familiarity with Microsoft PowerPoint, as well as computer projection equipment.

# NFPA 1041
# FIRE INSTRUCTOR II TRAINING
# QTR 122 – 5 Days

**Description**

This course is designed to meet the needs of the intermediate-level fire instructor. The course meets or exceeds the job performance requirements in National Fire Protection Association (NFPA) 1041, Standard for Fire Service Instructor Professional Qualifications, Chapter 5. The Fire Instructor II course is designed around classroom lectures and exercises.

This course provides the tools necessary to obtain certification through the National Professional Qualifications System (Pro Board).

## Prerequisite

### Certification

- You must provide proof of NFPA 1041 Instructor I certification prior to the start of the class, and you must meet the requirements of our certification office.

## Topics

- Managing Instructional resources
- Preparing lesson plans for specialized and advanced courses
- Developing evaluation instruments
- Developing topic specific instructional materials
- Teaching methods and techniques

## Audience

All emergency response personnel, including fire prevention, suppression, and control personnel.

All safety personnel, including Department of Defense (DoD), Industrial Brigade, and/or Municipal personnel.

## Requirements

- Preregistration Required.
- A laptop with Microsoft Office (or compatible software)

### Personal Protective Equipment

- This course requires Personal Protective Equipment (PPE) Level 0 as described in the RLESC Student Safety Manual.
- All students are required to follow this manual at all times.
- You must wear:
  - Regular work attire for training activities and classroom sessions.
- You may not wear to any class or field activity:
  - Shorts
  - Sleeveless shirts
  - Open-toed shoes

### Certification

- You must present a photo I.D. before the written test.
- To receive ProBoard certification, you must successfully complete the required practical assessment and written ProBoard exam.

## Recommended

As a part of the course, you will be required to modify a lesson in PowerPoint format; therefore it is recommended that you have working knowledge of computers and computer projection equipment as well as familiarity with Microsoft PowerPoint.

You must bring a laptop or tablet with Microsoft Office (or compatible software).

# NFPA 1081
# INDUSTRIAL FIRE BRIGADE LEADERSHIP
# QTR 311 – 3 Days

**Description**

The Fire Brigade Leadership course provides you with a solid foundation to manage emergency response at an industrial incident. The course defines leadership roles and characteristics, provides basic reference knowledge to frequently used standards and regulations, and provides foundational skills to manage the resources at an incident scene.

The course includes classroom discussion and tabletop exercises that include designing and implementing an Incident Action Plan (IAP).

Upon successful completion of this course, you will be awarded 1.6 Continuing Education Units (CEU) certified through the International Association for Continuing Education & Training.

## Prerequisite

- If you would like certification you must provide proof, by the end of the class, that you are certified to National Fire Protection Association (NFPA 1081) Standard for Industrial Fire Brigade Member Professional Qualifications (2012 Edition) Chapters 6 and 7.
- You can provide a certificate or a transcript from an accredited agency that lists successful completion of the requirements. This proof must be dated prior to the last day of class.

## Topics

- Leadership Role, Styles, and Traits
- Communications
- Firefighter Safety
- Safety Regulations and Standards
- Fire Brigade Organization and Staffing
- Record-Keeping Requirements
- Training Program Components
- ICS/NIMS Information Management
- Pre-incident Planning
- Developing an Incident Action Plan
- Strategy and Tactics
- Implementing an Incident Action Plan

## Audience

This course is appropriate for all industrial emergency response personnel, including fire prevention, suppression, control, and safety personnel with a basic understanding of the Incident Command Systems (ICS) and firefighting. Potential attendees could include:

- Plant operators
- Plant maintenance
- Laboratory personnel
- Engineers
- Electricians/Instrumentation techs
- Security personnel

# NFPA 1081
# INDUSTRIAL EXTERIOR FIRE BRIGADE TRAINING
# QTR 301 – 5 Days

**Description**

This course is designed to meet the objectives outlined in the National Fire Protection Association (NFPA) 1081 Standard for Industrial Fire Brigade Member Professional Qualifications (2012 Edition)" Chapters 5 and 6. This course will provide your new brigade members, as well as existing emergency response personnel with a solid foundation of knowledge and skills that may be used to safely resolve emergencies involving exterior fire at an industrial facility. All of this is accomplished through a combination of classroom presentations and field exercises.

## Prerequisite

If you would like certification, you must provide proof by the end of the class that you are trained to NFPA 472 Hazmat Awareness or above.

You can provide a certificate or a transcript from an accredited agency that lists successful completion of the requirements. This proof must be dated prior to the last day of class.

## Topics

- Introduction to fire brigades
- Firefighter Safety/personnel protection
- Applications equipment (PPE)
- Fire Streams and appliances
- Self-contained breathing apparatus (SCBA)
- Dry chemical agents and applications
- Pre-emergency planning
- Strategies and tactics
- Incident command (overview)
- Fire behavior
- Fundamentals of firefighting
- Rescue procedures
- Salvage and overhaul operations
- Fundamentals of ventilation
- Plant fire prevention

## Audience

This course is appropriate for all industrial emergency response personnel, including fire prevention, suppression, control, and safety personnel. Potential attendees could include:

- Plant operators
- Plant maintenance personnel
- Laboratory personnel
- Engineers
- Electricians/Instrumentation techs
- Security personnel

## Requirements

### Personal Protection Equipment (PPE)

This course requires PPE Level 4 as described in the RLESC Student Safety Manual. All students are required to follow this manual at all times.

## Recommended

Due to the nature of the training, a physical examination is recommended prior to enrolling in this course.

# NFPA 1081
# INDUSTRIAL INTERIOR FIRE BRIGADE TRAINING
# QTR 302 – 5 Days

**Description**

This course is designed to meet the objectives outlined in the National Fire Protection Association (NFPA) 1081 Standard for Industrial Fire Brigade Member Professional Qualifications (2012 Edition) Chapters 5 and 7.

This course will provide your new brigade members, as well as existing emergency response personnel with a solid foundation of knowledge and skills that may be used to safely resolve emergencies involving interior fire at an industrial facility. All of this is accomplished through a combination of classroom presentations and field exercises.

## Prerequisite

If you would like certification, you must provide proof by the end of the class that you are trained to NFPA 472 Hazmat Awareness or above.

You can provide a certificate or a transcript from an accredited agency that lists successful completion of the requirements. This proof must be dated prior to the last day of class.

## Topics

- Introduction to fire brigades
- Firefighter safety/personnel protection
- Applications equipment (PPE)
- Fire Streams and appliances
- Self-contained breathing apparatus (SCBA)
- Dry chemical agents and applications
- Pre-emergency planning
- Strategies and tactics
- Incident command (overview)
- Fire behavior
- Fundamentals of firefighting
- Rescue procedures
- Salvage and overhaul operations
- Fundamentals of ventilation
- Plant fire prevention

## Audience

This course is appropriate for all industrial emergency response personnel, including fire prevention, suppression, control, and safety personnel. Potential attendees could include:

- Plant operators
- Plant maintenance personnel
- Laboratory personnel
- Engineers
- Electricians/Instrumentation techs
- Security personnel

## Requirements

### Personal Protection Equipment (PPE)

This course requires PPE Level 4 as described in the RLESC Student Safety Manual. All students are required to follow this manual at all times.

## Recommended

Due to the nature of the training, a physical examination is recommended prior to enrolling in this course.

# INCIDENT SAFETY OFFICER TRAINING
# QTR 321 – 3 Days

**Description**

The course provides you with a solid foundation and knowledge to identify and analyze safety concerns and to communicate recommended solutions to the command authority. The class focuses on industrial emergency scene operations using the Incident Command System (ICS). You will gain confidence in your ability to handle a variety of emergency situations through classroom exercises, including building an incident safety plan.

## Prerequisite

There are no prerequisites for this class

## Topics

- Introduction and Overview of the Incident Safety Officer
- Role of the Incident Safety Officer
- Regulations, Standards and Policies
- Creating an Incident Safety Plan
- Record Keeping and Documentation
- Risk Management
- Incident Considerations: Communications and Monitoring
- Communicating Within the ICS

## Audience

This course is appropriate for all industrial emergency response personnel, including fire prevention, suppression, control, and safety personnel with previous plant operations and emergency scene operations experience.

Potential attendees could include:

- Plant operators
- Plant maintenance
- Laboratory personnel
- Engineers
- Electricians/instrumentation techs
- Security personnel

## Requirements

### Personal Protection Equipment (PPE)

This course requires Personal Protection Equipment (PPE) Level 1 as described in the RLESC Student Safety Manual All students are required to follow this manual at all times.


# NFPA 1081
# INCIPIENT FIRE BRIGADE
# QTR 313 – 4 Days

## Description

This course is designed to provide industrial fire brigade members with the skills and knowledge required for certification to NFPA 1081, Chapter 5, "Incipient Industrial fire Brigade Member" as described in the National Fire Protection Association (2007 edition).

## Prerequisites

None

## Audience

This course is appropriate for all industrial emergency response personnel.

## Requirements

**Personal Protection Equipment (PPE)**

This course requires Personal Protection Equipment (PPE) Level 1 as described in the RLESC Student Safety Manual All students are required to follow this manual at all times.

# SELF CONTAINED BREATHING APPARATUS (SCBA) PROTECTION QTR 161 – 1 Day

## Description

This course is conducted using classroom and hands on participation by the participants. Participants will be able to determine conditions requiring the use of respiratory protection and differentiate between the types of respiratory protection available. They will be able to identify the components of SCBA and their functions as well as demonstrate the ability to don, doff and work in SCBA.

## Prerequisites

None

## Audience

Emergency response personnel and others who need training on SCBA.

# INCIDENT COMMAND FOR INDUSTRIAL FIRE BRIGADES QTR 322 – 3 Days

**Description**

This course will train you to use the Incident Command System (ICS) to manage emergency incidents, increase responder safety and more effectively use available resources. You will learn how the incident command structure is formed and used at industrial emergency scenes.

Upon successful completion of this course, you will be awarded 1.6 Continuing Education Units (CEU) certified through the International Association for Continuing Education & Training.

## Prerequisite
There are no prerequisites for this class

## Topics
- History and regulatory overview
- Importance of the emergency response plan
- Incident Command System
- Preplanning
- Site Command
- Safe work practices, PPE
- Terminating emergency incidents

## Audience
This course is appropriate for all industrial emergency response personnel, including fire prevention, suppression, control, and safety personnel who are trained to the Operations Level for Hazardous Materials (HazMat) Response (National Fire Protection Association (NFPA) 472).

Potential attendees could include:

- Plant operators
- Plant maintenance personnel
- Laboratory personnel
- Engineers
- Electricians/Instrumentation techs
- Security personnel

## Requirements
### Personal Protection Equipment (PPE)
- No bunker gear required.
- PPE Level 1 as described in the RLESC Student Safety Manual.
- All students are required to follow the RLESC Student Safety Manual at all times.

# ADVANCED TACTICAL LEADERSHIP AND FIREFIGHTING TRAINING
# QTR 312 – 3 Days

## Description

This course provides you with training in leadership techniques, incident size-up, strategic planning, tactical operations, and resource management. Through classroom and field exercises, you will also handle a variety of emergency situations. The class focuses on doing more with less, and working smarter, not harder.

## Prerequisite

Participants must have a basic understanding of Incident Command and Firefighting. Due to the nature of the training, a physical examination and fitness test is recommended prior to enrolling in this course.

## Topics

- Roles, responsibilities, and functions of an incident commander
- Overview of the Incident Command System (ICS)
- Pre-emergency planning
- Fire ground size-up, strategies, tactics
- Pre-emergency planning applications
- Multiple incident management exercises

## Audience

This course is appropriate for all industrial emergency response personnel, including fire prevention, suppression, control, and safety personnel with a basic understanding of ICS and firefighting. Potential attendees could include:

- Plant operators
- Plant maintenance personnel
- Laboratory personnel
- Engineers
- Electricians
- Instrumentation techs
- Security personnel

# MARINE FIREFIGHTING FOR LAND BASED FIREFIGHTERS
# QTR 511 – 5 Days

## Description

This course is designed for municipal fire departments and industrial fire brigades that have marine terminals within their jurisdictions. It provides you with information and training specific to the marine environment and utilizes scenario-based, live-fire exercises to apply the knowledge and skills gained during the course.

Organizations whose fire protection responsibilities include marine facilities and vessels will benefit from this program.

## Prerequisite

There are no prerequisites for this class

## Topics

- Legal issues
- Marine environment
- Roles and responsibilities
- Stability
- The role of the U.S. Coast Guard
- Unified command (ICS)
- Utilization of resources
- Vessel construction
- Vessel familiarization
- Vessel systems
- Cargo hazards

## Audience

Anyone who is a member of a municipal fire department or industrial fire brigade and whose fire protection responsibilities include marine facilities and vessels will benefit from this course.

## Recommended

Due to the strenuous nature of class activities, you should secure a professional evaluation of your physical condition prior to enrolling in this course.

# BASIC MARINE FIREFIGHTING
# QTR 501 – 4 Days

**Description**

This U.S. Coast Guard (USCG)-approved course emphasizes hands-on training that provides you with the skills necessary to effectively participate as a member of an emergency response team aboard a merchant vessel or offshore facility. The objective is to provide both unlicensed and licensed personnel with thorough training and hands-on practice in the techniques of marine firefighting.

This course satisfies the training requirements of Section A-VI/1 and Table A-VI/1-2 of the Standards of Training, Certification and Watchkeeping (STCW) Code and 46 Code of Federal Regulations (CFR) 11.205(1)(2); the Basic Firefighting training requirements of 46 CFR 11.205(g) and 11.401(g)(1) for a license; and the Firefighting training requirements of 13.207, 13.307(a), 13.407, or 13.507 for any tankerman endorsement.

## Prerequisite
There are no prerequisites for this class

## Topics
- Chemistry of fire
- Fire behavior and classification
- Fire detection systems
- Fire hose and nozzles
- Fire party organization
- Fire prevention
- Firefighting equipment
- Fixed fire extinguishing systems
- Foam Application
- Portable extinguishers
- Protective clothing
- Search and rescue
- Self-Contained Breathing Apparatus

## Audience
Maritime and offshore petroleum industry personnel.

## Recommended
Due to the strenuous nature of class activities, you should secure a professional evaluation of your physical condition prior to enrolling in this course.

# COMBINED BASIC AND ADVANCED MARINE FIREFIGHTING QTR 503 – 10 Days

**Description**

The Combined Marine Firefighting course emphasizes hands-on training to provide you with the skills necessary to effectively lead an emergency response team aboard a merchant vessel or offshore facility. Supplementing the handson training are classroom presentations utilizing discussion, demonstrations, case histories, and visual presentations.

You will be assigned to various positions on emergency response teams and will be asked to respond to different live-fire situations as an organized unit. As part of an attack team and scene leader, you will assess the situation, decide on a course of action and implement chosen tactics to successfully control the incident.

This course satisfies the requirements of 46 Code of Federal Regulations (CFR) 10.301-304; and the Basic Safety Fire Prevention and Firefighting training requirements of Section A-VI/1 and Table A-VI/1-2 of the Standards of Training, Certification and Watchkeeping (STCW) 95 Code and 46 CFR 10.205(1)(2); the Advanced Firefighting training requirements of Section AVI/3 and Table A-VI/3 of the STCW95 Code; the Basic and Advanced Firefighting training requirements of 46 CFR 10.205(g) and 10.401(g)(1) for a license; and the Firefighting training requirements of 46 CFR 13.113(d)(2)(i)(A), 13.113(e)(1)(i) (A) or (B), 13.201(e), 13.301(e), 13.401(e) or 13.501(e) for any tankerman endorsement.

## Prerequisite
There are no prerequisites for this class

## Topics
- Case histories
- Chemistry of fire
- Fire behavior and classification
- Fire detection systems
- Fire hose and nozzles
- Fire party organization
- Fire prevention
- Firefighting equipment
- Firefighting in port
- Fixed fire extinguishing systems
- Foam Application
- Inspection and servicing of firefighting equipment
- Interior firefighting
- Organization of a fire party
- Portable extinguishers
- Pre-fire planning
- Protective clothing
- Search and rescue
- Self-contained breathing apparatus (SCBA)
- Size-up
- Storage and handling of hazardous materials
- Tactical components of shipboard firefighting
- Training of a fire party
- Use of fixed fire extinguishing systems
- Use of water and its effect on stability

## Audience
Any maritime or offshore petroleum industry personnel who need both basic and advanced firefighting training.

## Recommended
Due to the strenuous nature of class activities, you should secure a professional evaluation of your physical condition prior to enrolling in this course.

# DEGREE (ADVANCED DIPLOMA) FIRE SAFETY MANAGEMENT

## Introduction

The objective of this programme is to provide a learning and training development programme that meets the needs of the Fire Service Organisations (Civil Defense, Army, Navy, Coast Guard, Aviation, Industries and Non-Industries) in GCC countries and all other countries in the Middle East.

Graduates from the programme will have the skills to be deployed within the Fire Service and Station Officer Level and have in place the foundations to become Senior Officers with the relevant organization in the future. The programme will develop individuals from having very little fire-related knowledge to being capable of commanding at Senior Officer Level.

The programme will provide education and skills in a broad range of fire related disciplines including Fire Chemistry, Fire Behavior, Firefighting, Specialist Rescue, Environmental Protection, Urban Search and Rescue, Incident Command, Emergency Planning, Fire Investigation, Building Inspection, Fire and Safety Systems in Building Design etc.

This course combines an extensive programme of vocational training courses, which already exist at RLESC and are currently delivered by TEEX and a 320 credit (140 at Level 4, 120 at Level 5, and 60 at Level 6) academic programme. The course will be delivered over 112 weeks. This will allow for 6 semesters, which will be delivered as outline in the tables below. An additional 10 week period will be available to support those students who have not meet the final learning outcome for the course at the first attempt.

uclan
University of Central Lancashire

## FIRST YEAR

### WINTER SEMESTER
(15 weeks + 1 week holiday)

| Code NFPA | Course Title Practical Training (TEEX) | |
|---|---|---|
| 472 | HazMat Awareness | 3 days |
| 472 | HazMat Operations | 5 days |
| 472 | HazMat Product Control | 4 days |
| 472 | HazMat Incident Commander | 5 days |
| 1001 | Firefighter I | 11 weeks |

| Code | Course Title Academic | CR |
|---|---|---|
| Level 4 | Academic Skills and English (I) | 10 |

### SPRING SEMESTER
(15 weeks + 2 weeks holiday)

| Code | Course Title Academic | CR |
|---|---|---|
| Level 4 | English for Fire Safety (I) | 10 |
| Level 4 | Skills for Fire Studies | 10 |
| Level 4 | Introduction to Fire and Rescue Services | 10 |
| Level 4 | Introduction to Hazards and Materials | 10 |
| Level 4 | Introduction to Combustion and Fire | 20 |

### FALL SEMESTER
(17 weeks + 2 weeks holiday

| Code NFPA | Course Title Practical Training (TEEX) | |
|---|---|---|
| 1001 | Firefighter II | 4 weeks |
| 472 | HazMat Technician | 10 days |
| 1041 | Fire Instructor I | 5 days |
| 1021 | Fire Officer I | 5 days |

| Code | Course Title Academic | CR |
|---|---|---|
| Level 4 | Academic Skills and English (II) | 10 |
| Level 4 | Community Fire Safety | 10 |
| Level 4 | Chemistry of Hazardous Materials | 10 |
| Level 4 | Introduction to Fire Leadership | 10 |

## SECOND YEAR

### WINTER SEMESTER
(15 weeks + 1 week holiday)

| Code NFPA | Course Title Practical Training (TEEX) | |
|---|---|---|
| 1521 | Incident Safety Officer* | 3 days |
| 1002 | Driver Operator / Pumper | 10 days |
| 1006 | Rope Rescue I | 7 days |
| 1006 | Confined Space I & II | 7 days |

| Code | Course Title Academic | CR |
|---|---|---|
| Level 4 | English for Fire Safety (II) | 10 |
| Level 4 | Buildings Materials and Fire | 20 |
| Level 5 | Control of Hazardous Materials | 20 |
| Level 5 | Fire Safety Management and Legislation | 20 |
| Level 5 | Safety, Health and Environment | 20 |

### SPRING SEMESTER
(15 weeks + 2 weeks holiday)

| Code | Course Title Academic | CR |
|---|---|---|
| Level 5 | Academic Skills and English (III) | 10 |
| Level 5 | Community Fire Safety Strategies | 20 |
| Level 5 | Fire Scene Operations | 20 |
| Level 6 | Fire Protection Engineering | 20 |

### FALL SEMESTER
(17 weeks + 2 weeks holiday)

| Code NFPA | Course Title Practical Training (TEEX) | |
|---|---|---|
| | Municipal Fire Brigade* | 6 days* |
| 1006 | Vehicle and Machinery Rescue* | 5 days |
| 1405 | Marine Firefighting for Land-Based Firefighters* | 5 days |
| 1081 | Industrial Fire Brigade – Exterior | 5 days |
| 1003 | Airport Firefighter | 10 days |

| Code | Course Title AcademicLevel | CR |
|---|---|---|
| Level 5 | Academic Skills and English (IV) | 10 |
| Level 6 | Disaster and Emergency Planning | 20 |
| Level 6 | Fire Investigation | 20 |

# STUDENT SERVICES AND LOGISTICS

## HOW TO APPLY

Application for all Ras Laffan Emergency Safety College (RLESC) courses can be completed online at www.rlesc.qa..

The website provides information on the application process to assist you with your next steps in your educational goals. Please review the instructions and information carefully before completing your application.

Applications form are to be submitted 15 days prior to the course start date. Late applications are accepted on a case-by-case basis.

**Our instructors are all highly experienced with international qualifications. RLESC should be your first choice for potential student/trainees for Emergency services, rescue, and health, safety and environment (HSE).**

## ADMISSIONS

We welcome all applications from potential students/trainees who are seeking to excel academically, demonstrate teamwork and leadership skills, with the potential to succeed at RLESC. The course delivery methods utilize a wide range of classroom and hands-on approaches. Our instructors are all highly experienced with international qualifications.

RLESC should be your first choice for potential student/trainees for Emergency services, rescue, and health, safety and environment (HSE).

## ADMISSION AND SELECTION CRITERIA

Each Emergency, Rescue and Health, Safety and Environment Program have individual course entry requirements, which can be found on the RLESC website: www.rlesc.qa.

Typical entry requirements listed on the website and in this prospectus include:

- English language
- High school graduate certificate
- Required certificate prerequisites
- Physical fitness.

All applications are considered on their individual merit. For further information about applying to RLESC, please contact:
Admin supervisor (student logistic)
Tele. +974 40146721
Email bahlool@qp.com.qa
info@rlesc.qp.qa,

## FEES

RLESC charges for all course and training programs fee, which covers the course tuition, breakfast and lunch. Essential course costs, registration and examinations other than retest of examinations.

## IMPORTANT

RLESC reserves the right to alter fees without pre notice at any time before or after admission, although every effort will be made to give adequate notice of alterations.

Fees are not fixed for the duration of the course and may increase year- - on year. If you withdraw from a course fees will be charged.

## PAYMENT OF FEES

Applicants accepted for training programs will be notified of the tuition fee and directed on payment method.

There will be charges on Administration services when an applicant withdraws, does not show for the training and/or does not complete the course.

# FREQUENTLY ASKED QUESTIONS

## 1. What is RLESC?

RLESC is the realisation of the idea His Highness the Emir Sheikh Tamim Bin Hamad Al-Thani, who envisaged a world-class safety and emergency college that will provide advanced training to professionals in the oil, gas, petrochemical, civil defence, civil and military aviation, and other sectors.

## 2. What does the RLESC brand stand for?

The RLESC brand personality exudes myriad key elements of professionalism, responsiveness, confidence, reliability and distinction. These elements are built around the brand values of trust, progression, pride, and readiness.

The brandmark of RLESC comprises two parts: a shield and a bilingual brand descriptor in Arabic and English. The RLESC logo takes its inspiration from the national colour of Qatar. It encompasses both the proud heritage and modernity of the nation, while reflecting traditional Arabic letters of R (for Ras) and L (for Laffan).

## 3. What is the target audience of RLESC?

RLESC provides an international curriculum and awards degrees that are internationally endorsed. It is a local opportunity for international education. Students at RLESC can improve their skills and knowledge through short or customised training courses, for the benefit of their current position.

RLESC differentiates between its two key audience segments: captured and targeted. The captured audience in Qatar includes organisations such as the Civil Defence, Ministry of Interior, Internal Security Force, Airport Safety and Security, Qatar Petroleum and its joint venture companies, as well as RLESC's stakeholders.

The target audience of RLESC includes all GCC countries, North Africa and Asian countries such as Singapore and Malaysia.

## 4. What are the subject courses offered by RLESC?

- Fire Emergency Safety Training
- Industrial fire fighting
- Civil Defence
- Civil Aviation
- Marine fire fighting
- Search and Rescure
- Hazardous Materials
- Emergency Medical Services

Additional courses that may come under consideration at a later stage:

- Health and Safety & Environment (HSE)
- Public Safety
- Business Continuity
- Customised training suites

## 5. What is the duration of the course programs?

Applicants can enroll in single training courses in specific field of study where the duration varies from three days to 12 weeks, or academic degrees, whose duration varies from 2-4 years. The first academic diplomas and university degrees are planned to be available on September 2015.

## 6. Are RLESC courses accredited by an international body?

Almost all of the RLESC courses are accredited by the National Board on fire Service Professional Qualifications 'ProBoard', US.

## 7. What is the medium of instruction at RLESC?

RLESC uses English-language medium in all its courses.

## 8. What does emergency safety training involve?

It involves a combination of both Academic training and Skills training. Effectively it means that the College could elevate an individual joining the fire emergency response services from recruitment level to senior staff level.

## 9. How big is the RLESC premise? What is the design like?

RLESC is designed on the lines of an integrated modernday campus. It is located on a 1,000,000sqm plot and features an academic area, non-burn training area, active burn training area, and a utility area.

The layout is optimised for safety and access control and self-contained utility systems.

## 10. What does the RLESC facility comprise?

RLESC is a full-campus with the capacity to train up to 300 students at a time. It comprises of:

- Administration building
- Classrooms - 12 internal and 9 external
- Auditorium capacity 100 people
- Conference rooms - 4
- Fire station
- Equipment room
- Cafeteria
- Control tower
- Parade ground
- LNG research centre
- Security Control Gates
- 30 training props with a combined number of 119 burners

## 11. What are some of the notable props at RLESC?

- Aircraft, helicopter and military jet
- 40m x 10m 3-level marine vessel
- Multiple industrial units
- Offshore and onshore wellhead
- 9 storey tower complex
- 5 storey Mall (containing underground car parking) and cinema theatre
- 3 storey commercial complex
- Warehouse structure
- Villa housing complex
- Road Traffic Accident (RTA), driver trainers; real and 3D
- Forensics & disaster response

## 12. What are some of the notable equipment at RLESC?

The RLESC is completely self-sufficient and boasts all the required state-of –the-art equipment required to operate a world-class training institution:

- Breathing Apparatus Sets
- Bunker Gear
- Fire Engine
- Ambulance
- Liquefied Natural Gas Tanker
- Dangerous Goods / Hazmat

## 13. What are the self-contained utilities available at RLESC?

RLESC utilises a range of self-contained utilities. At present time, these include:

- Training water treatment plant
- On-plot water storage (55200 $m^3$)
- 12,000 us GPM training water supply
- 227 $m^3$ liquefied petroleum gas (LPG) storage
- 95 $m^3$ gasoline storage
- Gasoline & diesel for vehicles
- Safety Instrumentation System (SIS) and 3 Supervisory Control and Data Acquisition (SCADA) control and monitoring systems
- 4 on-plot high voltage substations – Total Power capacity of 20 MVA (1 x Main sub station –33KV/11KV & 11KV/415 V, 3 x 11KV/415 V sub station)
- Potable water / Emergency Fire Water Tank – Total capacity of 2042 $m^3$
- Irrigation Water Tank – Total capacity of 750 $m^3$

## 14. What are the LNG specific training programs at RLESC?

Ras Laffan is home to some of the world's biggest LNG infrastructures. The specialised LNG training available at RLESC includes live fire training in LNG physical characteristics, LNG extinguishing techniques, and LNG vapour control techniques.

## 15. What are the LNG specific research initiatives at RLESC?

The LNG program at RLESC harnesses a rich array of measures. The program makes use of a fully-operational experimental station. The station is equipped to provide localised weather effects, localised temperate effects on concrete, and provides the option of future experiments through fixed utility infrastructure.

Further, RLESC will also be home to LNG Research Centre with the primary focus of fire and emergency services. Please note that this is a joint research project by QP, BP, and Texas A&M University at Qatar.

## FAST FACTS

Evisaged by His Highness the Emir Sheikh Tamim Bin Hamad Al-Thani and conceptualised by Qatar Petroleum with partnership of the Ministry of Interior, Ras Laffan Emergency & Safety College is the realisation of a modern Qatar, where an empowered workforce is fuelling the economy and contributing to research and development.

By providing a slew of industry-specific courses and academic programs, RLESC offers trainings to industry professionals that are meaningful and instantly applicable.

The College provides international curriculum that are internationally endorsed and widely accepted. Essentially, it is the availability of world-class vocational education & education accredited training right at local and regional doorsteps.

# EXPLORE QATAR

## Sights, Souks and a Sense of Adventure

While Qatar is a progressive society – open, relaxed and a regional hub for the arts – it also maintains its traditions and heritage. Visitors can search for bargains along the alleys and stalls of Souq Waqif, wander among one of the world's most extensive collections of Islamic art in the I. M. Pei-designed Museum of Islamic Art or take the family for a stroll along the scenic Corniche or beaches and shops of Katara.

For the more adventurous, a short drive yields everything from abandoned forts, archaeological sites and old cities along the northwestern coast to singing sand dunes (a sound produced by the wind) and desert adventures in the south. And that's just the start. Qatar's natural heritage goes far beyond the desert and camels many expect to find.

**The State's 10 terrestrial and marine protected areas cover 30 per cent of the nation's land surface. Qatar's eastern cape is home to mangroves, flamingos and a host of biodiversity, and the waters provide shelter to the planet's second largest population of Dugongs (sea cows). Qatar's trademark hospitality makes it easy to relax and explore this amazing gem of the Arabian Gulf.**

## Souq Waqif

Immerse yourself in Arab culture at Souq Waqif, a traditional market. Wander through the labyrinth of traditional Qatari architecture, where stalls sell everything from exotic spices and perfume, to fabrics and household goods. Visitors can barter over the local handicrafts, see the falcons for sale or relax with a shisha pipe and some Middle Eastern delicacies. The souq, which is open from 10am to noon and 4pm to 10pm, has a range of Middle Eastern and European restaurants and is always bustling in the evenings with tourists and residents.

## Museum of Islamic Art

The museum, which opened in 2008, was designed by the world-renowned architect I. M. Pei and is worth visiting for the building alone. Perched on the water on a purpose-built island, the geometric structure is a marriage of Islamic and modern architecture and is a jewel in Doha's crown. The museum houses one of the world's most spectacular collections of Islamic art, with artefacts spanning 1,400 years and three continents. With items dating from the 7th to the 19th century, the museum contains items such as jewellery and ceramics to manuscripts and precious stones. You will understand why the museum has been described as a "house of masterpieces".

For more information about opening times and exhibitions visit the museum's website www.mia.org.qa.

## Katara Cultural Village Foundation

Katara is the cultural centre of Doha, rich in exhibitions and attractions. Its facilities, such as the amphitheatre, opera house and theatre offer a series of world-class events. It also stages an impressive programme of art and photography exhibitions and works to foster local and regional talent via the Qatar Philharmonic Orchestra, Qatar Music Academy, the Fine Arts Society and many more. The beach, with water sports facilities, is popular with families on weekends, and the restaurants, such as L'wzaar where you can pick your own fish, are always busy.

For more information about Katara's programme of events, visit www.katara.net.

## The Corniche / Dhow boat ride

The Corniche offers an unrivalled view of the city, particularly at sunset where Doha's glittering skyline seemingly melts into water under the setting sun. This 8km promenade, dotted with palm trees and lawns, is popular at any time of day and there is always a steady stream of joggers, dog-walkers and families. Here you can see the traditional dhow fishing boats, the majority of which have been converted into pleasure boats offering trips around the bay.

## The Pearl

Built on top of an old pearl diving site, this luxury development on the edge of Doha is set on an artificial island shaped like a string of pearls. With a selection of international restaurants and cafes, most with outside seating and marina views, it is a popular place to meet friends for a meal.

The walkway around the Porto Arabia marina is always lively, with people taking an after-dinner stroll alongside the mega-yachts, or visiting the luxury clothing stores.

## Inland Dune Bashing to the Inland Sea (Khor Al-Adaid)

For the more adventurous, a trip to the inland sea – Khor Al-Adaid – should not be missed. To reach this large saltwater inlet, you must navigate 130ft dunes in a journey that is not for the faint-hearted. On reaching the natural wonder of the inland sea, you can swim in the warm waters and view the Saudi Arabia border. Trips, which can last for a half day, full day or can include a night at a traditional Bedouin camp, can be organised via tour operators.

## Mangroves

About 40km from Doha is the tiny Al Khor, or Purple Island, next to the village of Al Khor. The fish-shaped island features a mangrove forest, which is home to fish, crabs, shellfish and many types of birds - the most notable of which are the pink flamingos. You can drive out for the day or camp on the island and enjoy a night in these beautiful natural surroundings.

## Al Zubarah

Al Zubarah village is one of the largest and best preserved examples of an 18th to 19th-century merchant town in the Gulf and is one of Qatar's most important archaeological sites. It was one of the Gulf's key pearl trading ports, with coins and ceramics showing trade links reaching Asia, Iran, Turkey, Africa, Europe, and the Gulf. Many of these artefacts are housed in the fort that was constructed there in 1938 on the ruins of a previous fort. It now houses a museum that can be visited for free.

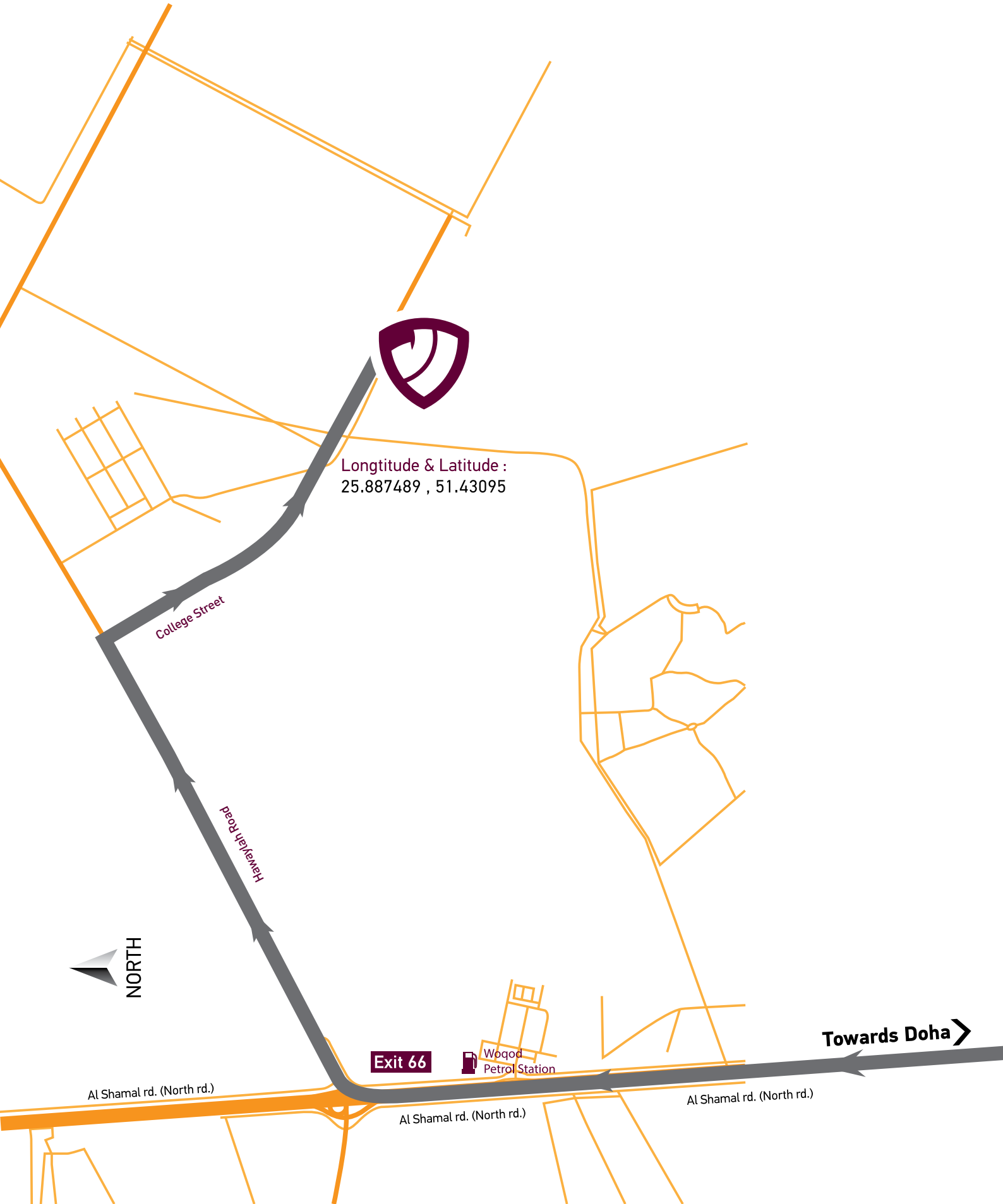
## Al Koot Fort

Al Koot Fort was built in 1880 to protect Souq Waqif. It is located in central Doha on the site of the old town. The fort has been used as a police station and in 1906 it began to be used as a jail. This led to the creation of one its most notable features – the roof of the mosque was removed so that guards could keep watch over the prisoners while they prayed. The building now houses a museum featuring photos and traditional Qatari handicrafts.

## Al-Shahaniya Camel Racing Stadium

During the winter racing season, locals gather regularly to watch the camels as they hurtle along the purpose-built stadium at speeds of up to 40kmph. Drive out to Al Shahaniya, about 60km west of the city, to visit the stables and watch the camels train, or join the locals on race day as they drive alongside the track, cheering on the camels, which are ridden by radio-controlled robot jockeys.

# LOCATION MAP


Longtitude & Latitude :
25.887489 , 51.43095
College Street
Hanwajah Road
NORTH
Exit 66
Woqod
Petrol Station
Towards Doha
Al Shamal rd. (North rd.)
Al Shamal rd. (North rd.)
Al Shamal rd. (North rd.)

Visit **www.rlesc.qa**