



A COMPREHENSIVE COMPANY PROFILE

GWORLD GHANA LTD.

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Gworld Ghana Limited
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INTRODUCTION

GWORLD GHANA LIMITED is an indigenous Ghanaian Products and Services Company that specializes in Fire Protection Engineering, HSE (Health, Safety and Environment), Construction Safety, Global Procurement Services, Navigational Aids, Services to the Oil and Gas Sector and Advisory Consultancy Service from end to end process specification through implementation, commissioning, maintenance and working with proven companies all over the world to achieve excellence in our operations.

Experience & Work force

GWORLD GHANA LIMITED strives for the highest possible service level for customers; we employ a network of service engineers, technical experts and facilitators who are trained and certified by our principals in the UK & USA in our range of products and services in Purchasing and Supply, Advisory Consulting, Design, Installation, Maintenance and Servicing. We have also enjoyed a considerable professional working relationship with the Ghana National Fire Service as the authority having jurisdiction.

Our major strengths lies with our technical expertise, product knowledge and service providing gained over many years from our principals who form the basis of achievement and also listening to the needs of our customers by selecting products that are tested under the scrutiny of independent laboratories, i.e. Underwriters Laboratory (U.L.) and Factory Mutual (F.M).



Innovation

Product development and service providing have a high precedence at GWORLD GHANA LIMITED. Proficiency in procuring goods and services and presenting the best advisory consultancy services to our clients is our top priority.

Count on us to have access to the latest and most advanced products in the Oil and Gas Sector and in other procurement services as well as fire protection and safety products, and systems.

Our well balanced range of products and many years' experience in devising integrated solution for our various fields of expertise guarantee that you are offered the ideal solution to your needs whenever, whatever, wherever at your convenience.

CLIENTELE LIST

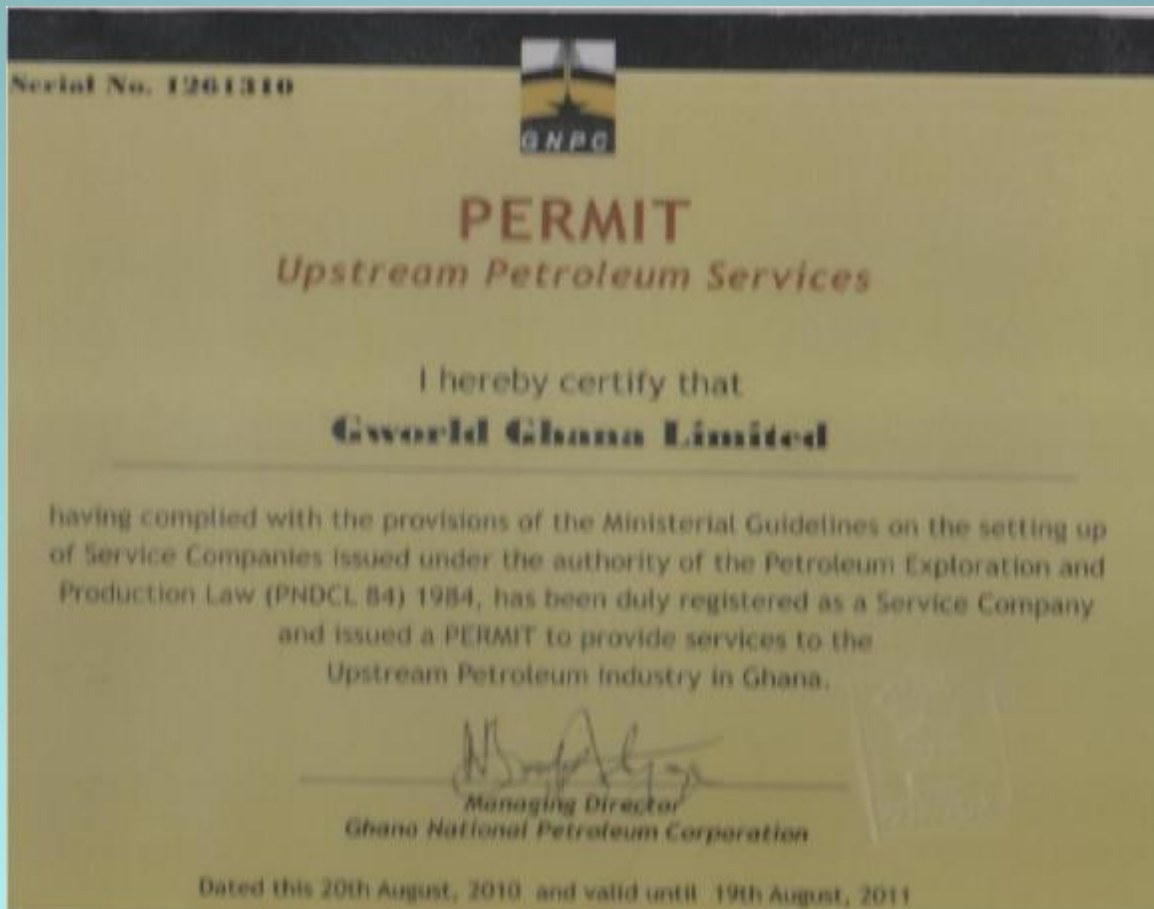
Gworld's list of cherished business clienteles over the years includes

- Tema Oil Refinery (TOR)
- Tema Oil Refinery
- Scancom Ghana Limited(Operators of MTN)
- Social Security & National insurance Trust (SSNIT)
- Volta River Authority(VRA)
- Millicom Ghana Limited (Operators of Tigo)
- Ghana Ports and Harbours Authority(GPHA)
- Ghana Community Network(GcNet)
- Dizengoff Ghana
- Cirrus Oil
- Civil Aviation/ Ghana Airports Company
- Ghana National Fire Service (GNFS)
- State House Towers Project
- MODEC Ghana Limited (Operators of F.P.S.O Kwame Nkrumah)
- Ghana Cocoa Board (COCOBOD)
- Bulk Oil Storage and Transportation (BOST) Limited

OIL AND GAS OPERATIONS

(Ghana National Petroleum Company (GNPC) Permit Holder)


Second Year Permit Holder: A local Content company to facilitate our associate foreign companies operations in Ghana. As a Government of Ghana policy, we are proud to have been approved as a permit holder by Ghana National Petroleum Company and currently, the following are our efforts and our list of associates companies, their partners and representatives.



VARIOUS PLAYERS IN THE OIL & GAS INDUSTRY


- **PAN OCEAN ENERGY SERVICES**

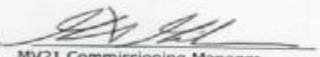
Recently signed off by Tullow Oil on the F.P.S.O. Kwame Nkrumah



James M Province
2206 Duboin Rd
New Iberia, La. 70560
(+1)337-365-4788
Local Partner Gworld Ghana LTD
GNPC Permit Holder No. 1261310
jamesmprovince@pan-ocean.com

Tullow Oil – FPSO Kwame Nkrumah MV21 – 7/10 – 12/10
Commissioning Engineer for the startup and commissioning of the FPSO Kwame Nkrumah. Responsible for the commissioning of packaged equipment such as chemical injection, GE turbine generators, Ariel Compressors, and Nuovo Pignone Compressors. Responsible for reviewing all electrical and instrumentation commissioning dossiers, Cause and Effect Testing, Technical Queries, punch list items, and acceptance of mechanically complete package.


Pan Ocean Representative
Pan Ocean Energy Services • 2206 Duboin Rd • New Iberia, La. 70560 • (+1) 337-365-4788
jamesmprovince@pan-ocean.com


MV21 Commissioning Manager

Pan Ocean Energy Services, L.L.C:

Pan Ocean Energy Services offers Onshore, Offshore and Onsite installation and maintenance personnel as well as fabrication and assembly in the oil and Gas Sector. In addition they offer electrical and instrumentation services in the form of panel design and manufacturing(electrical or pneumatic), Electrical Equipment installation, Communication security systems, Emergency management ,warning and notification systems, high and low voltage wiring installation and testing among others.

- **PROSCO OIL AND GAS UK**

Mr. John Michael Hall is the managing director of ProscO Oil and Gas Industries. A leading Oil services company situated in Libya and Tunisia with over 25 years experience in the oil, Gas, Petrochemical and drilling industries.

Address: P O Box 494, New Maiden, KT3 9FA, England. [Email:sales@proscO.co.uk](mailto:sales@proscO.co.uk).

ProscO Oil and Gas Limited partners

Arcbase Valve Services

Arcbase Valve Services is a manufacture and refurbishment engineers to the valve industry.

Address: units 8, 11 & 12 Brentwood court faraday place Thetfort Norfolk IP24 3RG

H.P.F Energy Services

H.P.F Energy services deals with the procurement and supply of piping components for the Oil and Gas Industry projects. Stockholdings and supply of pipe, butt weld and forged pipe fittings, Flanges, Valves and associated installations materials.

Address: 3 Kinwarton Farm Road, Arden Forest Industrial Estate, Alcester Warwickshire, United Kingdom

Novus Sealing Limited

Novus Sealing Limited is a design manufacture and supply of static seals for Oil, Gas, Chemical and process industries manufacture of glass reinforced phenolic and polyester plastic laminates. Manufacture of compressed fibre reinforced jointing material as well as supply of PTFE jointing material.

Address: *Hunsworth Lane, Cleckheaton, West Yorkshire BD19 4EJ, United Kingdom*

- **ASTUS ENGINEERING LTD.**

Dr Alexandra Weihrauch is the managing Director of Astus Engineering Limited. Their main focus is the design of Flow Station and Gas Plant facilities with all ancillaries, e.g. storage tanks, pipelines, utilities, power generation etc. for offshore and onshore applications.

Their Scope of work comprises

- Feasibility Studies
- Complete Engineering from Conceptual Design
- to Commissioning, all disciplines In-house
- Consulting and Project Management
- Construction Management
- Procurement and Quality Assurance
- Commissioning and Operation Assistance

Address: Strassweg 16 22607 Hamburg, Germany.



Astus Engineering Partners

- ✚ Welker flow measurement Systems (WMFS INC.)

WMFS INC is a Design and fabrication company who are dedicated to the manufacture of flow measuring systems or the manufacturing of liquid and Gas measurement equipment. They provide products and services to the Oil and Gas industries from sampling systems to control valves filtration equipment.

Address: 13901 West Bellfort, sugar land, Texas 77498.

RSI Global

RSI Global is an organization that designs, fabricates, installs and services Process control instrumentation, safety systems, control panels and related elements. Services provided at RSI Include. PLC based systems, Well control Panels, Fire and Gas detection systems, process control panels, Hydraulic Power Units, Chemical Injection packages, SCADA Systems, Solar powered systems, Power distribution panels, E&I field installations etc.

Address: 2063 Paxton Street, Harvey, LA 70058

• **PELICAN ENERGY CONSULTANTS LLC**

Pelican Energy Consultants, LLC is a privately held company that provides engineering services for the following support systems of the Oil and Gas, transmission, refining and petrochemicals industries. The services they offer are

- Refinery Maintenance & Capital Projects
- Shore Base and Terminal Facilities
- Midstream Gas and Condensate Plants
- Offshore Platforms including Well Protector Structures
- Oil and Gas Processing Facilities
- DOT, DOI Pipelines
- DOT, MMS, and State Permitting Packages
- Water Treatment Facilities
- Gas Compression Facilities
- Oil Stabilization Facilities

Kenneth Bogle is the president for Pelican Energy Consultants.

Address: 115 Ashland Way, Madisonville, LA 70477

Below is a partial list of Pelican's Project Experience



Pipeline Booster Station (Cloveley, Louisiana)



Pipeline & Meter Station Project (Gibson, Louisiana)

GWORLD GHANA LIMITED REPRESENTATION IN GHANA

- **Angus/Kidde Fire, UK**

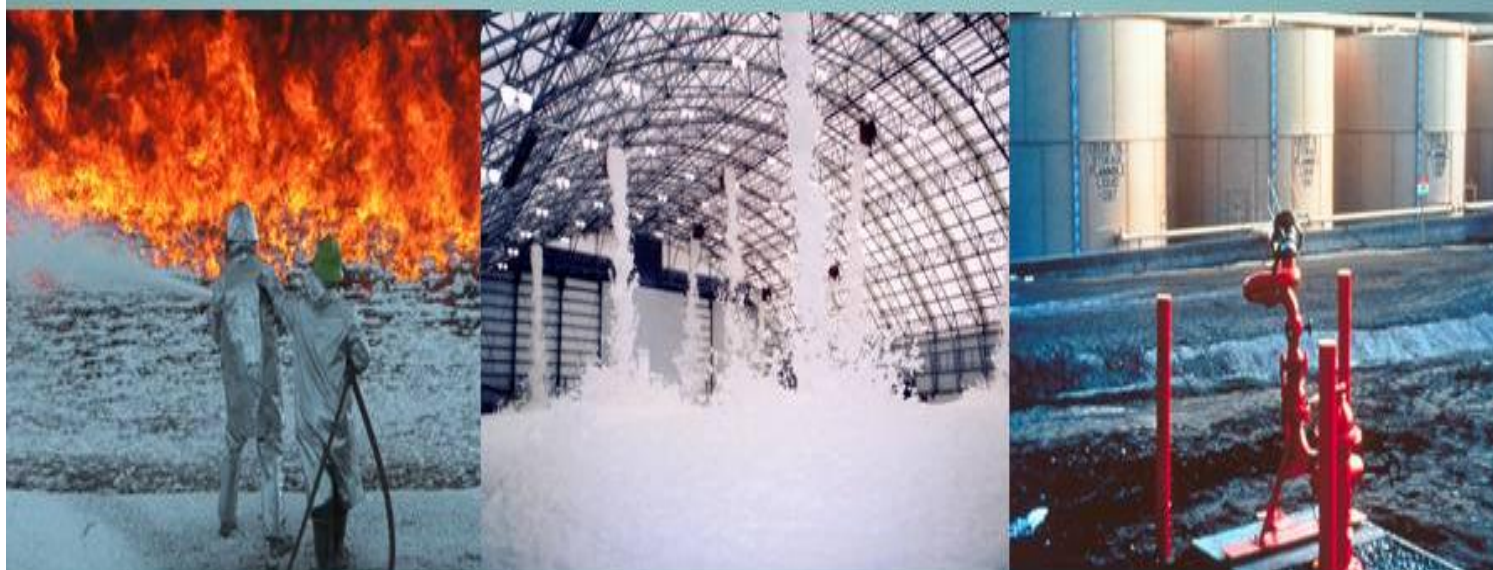
Angus Fire is a global leader in fire fighting technology with a long history of pioneering innovation. It occupies a unique world position in the development and manufacture of fire hose, foam concentrates and fire fighting equipment.

Angus Fire is a trading brand of Kidde Products Limited. Kidde Products Limited is part of UTC Fire & Security, a United Technologies Corp. (NYSE:UTX) business unit, which provides fire safety and security solutions to more than one million customers around the world. UTC Fire & Security is headquartered in Connecticut, USA.

Registered Office: Mathisen Way, Colnbrook, Slough, Berkshire, SL3 0HB, UK.

Registered in England and Wales No: 4622271

Angus Fire manufactures fire hose, foam concentrates, fire fighting equipment and building protection products at Bentham in North Yorkshire.



Tideland Signals Corporation

Tideland provides a complete inventory of rotationally moulded polyethylene buoys, self-contained LED lanterns, conventional LED lanterns, range lights, fog signals, fog detectors, solar power systems, rotating beacons, Racons and customised remote monitoring systems. Tideland is the leader in engineering and providing aids to marine navigation (AtoN) products to Port, Harbour and Lighthouse Authorities, Private Ports and Marinas, Coast Guards, offshore installations and maintenance companies

*Registered Address: Unit B / Kendal House, Victoria Way, Burgess Hill, West Sussex
RH15 9NF*

GWORLD'S SCOPE OF PRODUCTS & SERVICES

We provide services in the under-listed major disciplines:

- Fire Protection Engineering
- Occupational Safety , Health & Environment
- Navigational Aids
- Consultancy
- Emergency Evacuation & Response Systems
- Global Procurement of Goods and Services
- Services to the Oil and Gas Industries
- Advisory Consultancy Services

We study your needs, propose and implement solutions based on findings. Our strength lies in our HR capabilities (competent certified consultants and engineers) coupled with the use of analytical, design and specification software to provide comprehensive services to clients in different economic sectors.

Our integrated approach offers all our clients competent service delivery.



1. FIRE PROTECTION ENGINEERING SERVICES

As a distributor of Angus/Kidde Fire UK various products, we can competently offer the design, specification (using licensed software), and installation and maintenance services for the listed:

i. Fire Detection & Alarm Systems:

We are specialists in fire detection & alarm systems for low, medium and high-risk applications. Effective fire detection can prevent the disastrous and destructive consequences of fire on people, objects and the environment. Good-quality detection equipment is essential for early detection and subsequent sounding of the alarm. Every company is unique, but GWORLD GHANA LIMITED has a fire protection solution for every object in any sector.

Our high-quality detection equipment offers a comprehensive solution for every situation. In addition to detecting smoke and/or fire, a fire alarm system can also be connected to an extinguishing system or an evacuation alarm system.

ii. Sprinkler Systems:

Sprinkler systems are the most commonly applied automatic fire extinguishing systems, because of their straightforward and effective functioning. A sprinkler system consists of a water supply, alarm valves and a network of pipes with sprinklers installed throughout the building. A sprinkler control unit monitors the system, which is activated when a specific temperature is reached, causing water to be sprayed over

the fire.



iii. Gaseous Fire Suppression Systems:

In situations where the use of water is not possible or desirable, a gas extinguishing system is a good alternative. Thanks to many years of experience, GWORLD GHANA LIMITED has become an expert and specialist in the field of stationary gas extinguishing systems. We are at your service to help assess the specific situation at your company, in order to develop a customised solution.

GWORLD GHANA LIMITED prefers to apply the so called 'green' extinguishing agents, as these cause no environmental impact and has no harmful effects on human beings. Our supply programme consists of: Argon, Nitrogen, Argonite and CO₂. In addition, we supply chemical extinguishing gases like FM200, FE25 and Novec 1230, which are also applied as Halon replacements. Also available are vehicles and kitchen suppression systems.

iv. Foam Products & Extinguishing System:

Foam extinguishing systems are often applied in high-risk objects. The highly specific and unique properties of extinguishing foam make it an extremely effective fire fighting agent. For the protection of e.g. chemical stores and aeroplane hangars, high-expansion foam installations are applied, while low-expansion foam installations are used in the chemical and petrochemical industry. For the protection of production halls, helicopter decks etc., foam water canons are used.

Research and development of extinguishing foams and the associated installations is a major focus area at GWORLD. To carry out this work, we employ highly experienced specialists. All the products in our comprehensive range of foam concentrates and equipment have optimal extinguishing properties. They are moreover ecological and have a long storage life.

v. Fire Extinguishers:

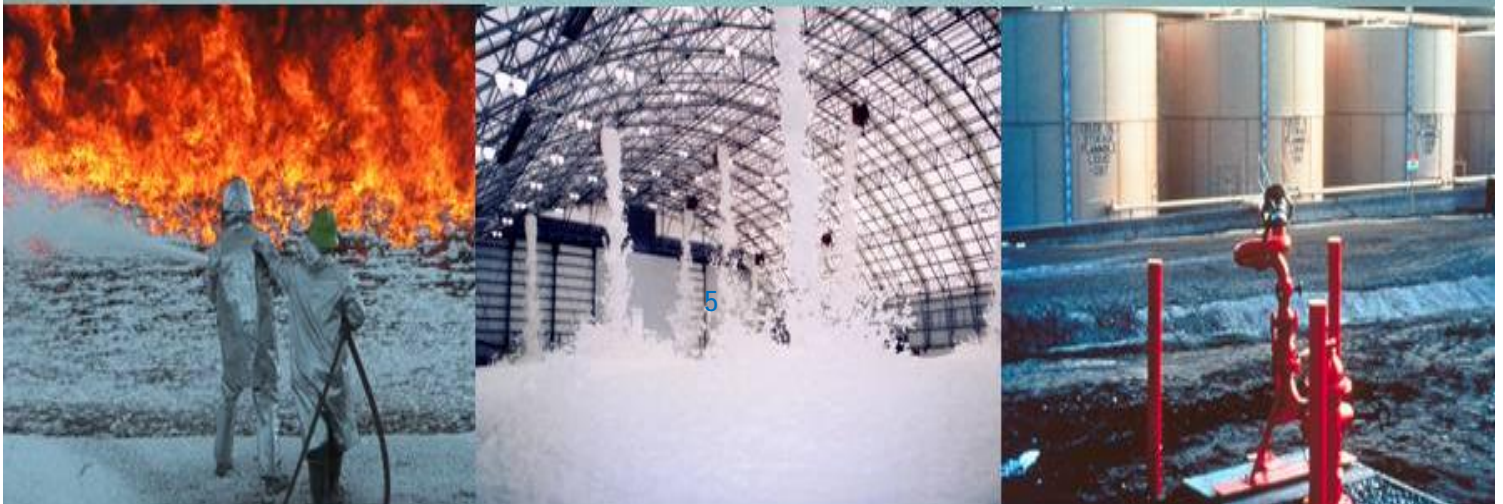
More than 85% of the fires in buildings can be put out successfully with a hand-held extinguisher. Because of that fact, we focus a great deal of attention on the reliability, ease of operation and extinguishing capacity of its fire extinguishers.

GWORLD has a full range of handheld as well as mobile fire extinguishers of various types: foam, powder and CO₂ extinguishers.

vi. Fire Hose Reels & Cabinets:

From fire hose reels to industrial reels: we carry a wide selection. Safety, mounting and ease of operation are the main considerations. The same applies to the reel cabinets.

By involving the client right from the beginning in the design phase, we are able to offer not only the best, but also the most attractive solution to every fire protection problem.



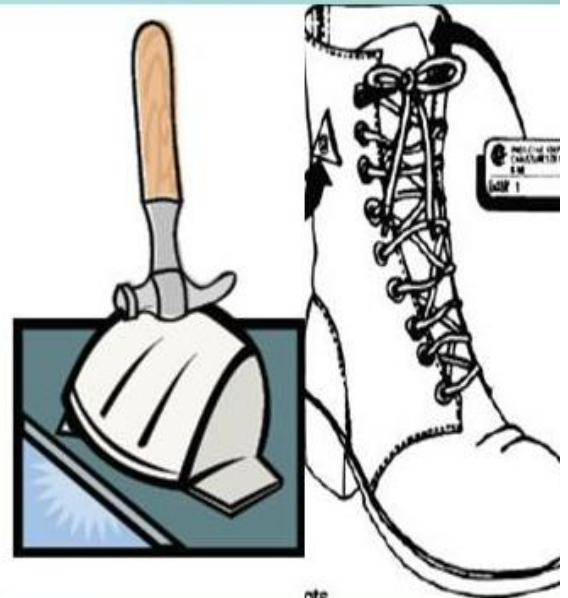
2. HSE SYSTEM DEVELOPMENT, IMPLEMENTATION AND MANAGEMENT

In a working environment, the health and safety of workers and the condition of their environment is of paramount importance, as it brings about maximum output from them when they know they work in a safe environment.

We are a specialized and competent occupational safety, security and accident prevention expert. With specializations in fire, occupational, industrial and construction safety, we seek for excellence and offer dependable, realistic and effective cost saving training programs in these fields.

Activities under this service include:

- Risk Assessment, Consequence Analysis & Safety Audits
- Environmental Audits & Environmental Impact Assessment
- HSE Policy Manual Development, Implementation & Systems Maintenance
- Training



3. NAVIGATIONAL AIDS

GWORLD GHANA LIMITED is the authorised distributor in Ghana for **Tideland Signal UK**, which specialises in the design, manufacture, supply, commissioning and engineering of Aids to Navigation (AtoN) equipment for Ports & Harbours and the Offshore Energy and Oil & Gas Industry.

We provide navigational Aids to Lighthouse, Port & Harbour Authorities, Coast Guards, and to Oil & Gas companies to mark their offshore platforms.



The fog signal and subsidiary Light

Products include:

- Lighted Beacons and Floating Aids
- Radio Aids and AIS AtoN
- Audible Aids
- Power Sources
- Support Structures



The Light Station - Single Lift

- Remote Monitor &

Control

Services:

- Installation
- Maintenance
- Consultancy



4.0 PERSONNEL PROTECTIVE EQUIPMENT (PPE): ALLSTAR FIRE USA & GWORLD

Allstar Fire Inc, is a global supplier and manufacturers representatives in the United States of America for various safety and survival equipment; including survival suits, thermal garments, personal protective equipment, breathing equipment, emergency and much more.

Gworld Ghana is an authorised representative in Ghana and provides Safety & PPE supplies ranging from first aid supplies to work gloves as well as various types of branded respirators and ear loop surgical procedure masks.

Our range of Safety & Personnel Protective Equipment (PPE'S)

Our broad selection of safety and PPE's is sure to impress you and provide compliance and safety at work. If you have been shopping around for insulated clothing/freezer wear you have finally found your one stop safety supplier for all of all freezer garment, insulated clothes and safety supplies needs.

- Nomex Apron Aluminised Rayon
- Nitrile Gloves
- Welding Gloves
- Dura Mask Niosh N95
- Amber Safety Glasses
- Safety Boots
- Ear Plugs
- Bunker Clothing
- Breathing Apparatus
- Fireman's Products & Accessories



5. Advisory Consultancy Services

The Company's mission is to provide advisory consultancy Services on Government and Investment policies to our clients through our rich experience in the Ghanaian market.

Our experience over the years has shown the Ghanaian economy in the coming years will expand and hence requires your understanding of the various policies in the pursuit of running a genuine business in Ghana. Some of the services through our advisory consultancy services we provide are business model advisory etc.

To achieve the best outcome for our clients we involve all stake holders by going through a consultative process which includes involving our clients so that we can provide tailor made solutions to your requests. By this we apply the best business practices and create customer relationship development to achieve the best results.

TALK TO US!!

6. FIRE CONSULTANCY SERVICES

Risks are part of our daily lives. Running a business is not possible without taking risks. But these risks must be acceptable and aimed at ensuring the continuity of the company. GWORLD Consultancy can offer your company support in the identification of hazards and the quantification of these hazards in terms of risks. Measures to reduce the risks can then be determined, based on the nature and extent of the analysed risks.



Comprehensive fire protection begins in the design phase. Before the construction process commences, it is vital that consideration is given to fire protection and the risks that could endanger the continuity of the company. Our consultancy division gladly provides excellent advice on fire protection.

The systems and equipment recommended by GWORLD comply with all statutory regulations and standards; the same applies to the management and maintenance performed by us. Market demands and regulations with regard to fire protection are constantly changing. In anticipation thereof GWORLD personnel undergo constant further training.

7. EMERGENCY EVACUATION & RESPONSE SYSTEMS

GWORLD GHANA range of High Rise Escape Systems and other emergency response systems uses a Controlled Descent Device (CDD) that adjusts to the user's weight and lets them descent at a rate of approximately 1 to 1.5 metres per second.

The CDD is attached to a wall-mounted boom (floor fixture also available). A special wire rope is threaded through the CDD and at both ends of the rope is a flame proof, patented escape suit. The user merely has to swing the boom over the point of egress (window/balcony), get inside the Evac Suit (pictured below) and step off the ledge to safety.

When the user reaches the ground, the other end of the wire rope (and thus the other Evac Suit) is at the top, ready for the next user to come down. For example one system on the 10th floor can safely evacuate 30 people in 8 minutes.

Fixed Mounted Escape Systems

- Escape Pack
- Guardian Wall Mount
- The Life Box

Portable Escape Systems

- Escape Pack
- Responder 1 & 2

Evacuation Accessories

- Xscape Safe Kit
- The Emergency Evac Chair & Glider

Platform Rescue System

- Platform Rescue System