



## SAVING LIVES AND PROTECTING ASSETS



**The Advanced Group of Companies has grown from humble beginnings in 2000 to a formidable force in the risk management, risk mitigation and emergency response markets.**

The group's growth can be attributed to its founding principles of trust and quality and its three pillars of operation, namely:

- » Risk management
- » Risk mitigation, and
- » Emergency response

This has made us the market leader when it comes to total risk management on the African continent. With companies servicing all three pillar segments, the group is well positioned to deliver on its promise of Saving Lives and Protecting Assets! When it comes to risk management, risk mitigation and emergency response, we're the best. Safety is our number one priority and meeting our clients' needs the only seal of approval that counts.

Comprising several subsidiary companies, the Advanced Group provides a comprehensive range of risk management, risk mitigation and emergency response products and services to the mining, municipal, commercial, hospitality, aeronautical, marine, petrochemical, oil and gas, and industrial sectors across Africa. Each Advanced Group subsidiary company is a market leader in its respective field.

*When it comes to Saving Lives and Protecting Assets, we are the only choice to meet your risk management, risk mitigation or emergency response needs.*



**01**

## **Risk management**

- a. IRCA Global (Pty) Ltd

**02**

## **Risk mitigation**

- a. Whip Fire Projects (Pty) Ltd
- b. Advanced Fire Suppression Technologies (Pty) Ltd
- c. Advanced Lubrication Solutions
- d. Industrial Fire & Hazard Control (Pty) Ltd
- e. FlameBlock (Pty) Ltd

**03**

## **Emergency response**

- a. Rural Metro Emergency Management Services (Pty) Ltd
- b. Medi Response





# RISK MANAGEMENT



## SERVICES

### AUDITING

The IRCA Audit Division measures the level of compliance with ISO 14001, ISO 9001, ISO 45001, ISO 22001 (HACCP, FSSC 22000), ISO 50001 and ISO 55000, as well as other organisational standards and requirements. We guide our clients to set benchmarks beyond minimum legal requirements to benefit from an integrated SHERQ management system.

The IRCA IRS™/IDRS™ Audit assists in the detection of system failures through the measurement of the control and performance of an organisation's SHERQ management system. System failures are the fundamental root cause of incidents and non-conformances within an organisation. System failures or fundamental root causes are the result of inadequate hazard/aspect identification, risk/impact assessments, and risk/quality control measures.

### BEHAVIOUR INTERVENTIONS

There are many organisations with safety systems that provide world-class safety performances. However, despite these safety systems, many reach safety performance plateaus and injuries still occur. The reason for this is that many behaviour-based care processes focus only on overt behaviour and neglect covert behaviour. IRCA Global specialises in managing complex human behaviour to reduce harm.

### ROOT CAUSE ANALYSIS TECHNIQUE (RCAT™)

Root cause analysis is a structured evaluation method that identifies the root causes for an undesired outcome and defines corrective actions to prevent re-occurrence. Multiple services around the RCAT methodology are on offer, including training, independent investigations, and software.

### SOME OF THE COURSES ON OFFER\*

COURSE	DETAIL
Risk assessment	Fundamentals of Risk Assessment, HIRA, HAZOP, Advanced Risk Assessment Training
Consulting	RISKMAQ Part 1 - 4™, Modern SHEQ/Risk Management (MSRM)™, IRCON™
Incident/accident investigation	Root Cause Analysis Technique (RCAT™), Incident Investigation
International standards	ISO 9001, 14001, 45001, 27001, 22301, and more. Various levels ranging from Awareness, Facilitation/Implementation, Internal Auditor, as well as Lead Auditor.
Auditing	CAP™, the IRCA CAP Auditing Protocol.

\*Accreditation is available on request. Full list of courses available on request.

## ABOUT US

Established in 1993, IRCA Global is a leading South African-based operational risk management solutions provider specialising in safety, health, environment, technical risk and quality (SHERQ) assessments. With unmatched experience in the SHERQ industry, and with its global footprint, IRCA Global has assisted hundreds of organisations to reduce operational risk exposures and to comply with global standards.

### GENERAL

IRCA Global offers solutions that address operational risk management needs. From risk awareness training to system integration, risk control optimisation, behaviour interventions, auditing and assessments, IRCA Global's wide range of products can be applied separately, or as an integrated solution to reduce the exposure to SHERQ risks in an organisation. All IRCA Global's products and services are supported by state-of-the-art software solutions.

IRCA Global assesses, advises, and assists clients to manage operational risk in a cost-effective and practical manner through integrated management systems and innovative products and services – thereby enhancing sustainable business performance (world-class SHERQ compliance).



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# RISK MITIGATION



Whip Fire Projects is a leading fire protection specialist in the fire sprinkler, fire detection and gas suppression industry.

Using the latest, cutting-edge technology, Whip Fire Projects offers custom and special risk systems complete with products and services to its local and international client base.

## MODULAR, EASY-TO-INSTALL SOLUTIONS

Whip Fire Projects offers its Ready-Steady-Fire sprinkler systems, a system patented by Whip Fire, (WF-Main, WF-Range, WF-Roof and WF-InRack) to the South African market. Manufactured to the highest quality standards, the pressure-tested and epoxy-coated sprinkler system product range:

- » Decreases production and installation time;
- » Minimises leakages;
- » Streamlines logistics and client service;
- » Offers one-size-fits-all and modular flexibility for dismantling, relocation and assembly; and
- » Reduces cost and increases affordability.

The predesigned system is SABS, FM, CE, UL, NFPA and ASIB approved.

## SYSTEM APPLICATION

The predesigned system is devised for use in the fire protection industry and meets the requirements for high hazard fire risk (9 m<sup>2</sup> area of operation) for both in-rack and in-roof structures.

For in-rack structures, the predesigned system meets the requirements for fire hazard categories 1, 2 and 3. By simply adding extra outlet, the system can be adapted to meet the requirements for fire hazard category 4.

## SYSTEM SPECIFICATIONS

The system is manufactured from Grade A steel and finished with full chemical corrosion protection, priming and epoxy top-coating.

## SYSTEM COMPONENTS

- |                                |   |
|--------------------------------|---|
| <b>Primed-range:</b>           | Pre-grooved pipes with outlet for easy coupling.  |
| <b>Modular-couplings:</b>      | Flexible couplings and mechanical tees that attach, seal and prevent leakage, without requiring welding, machining or pipe threading. |
| <b>World-class components:</b> | Sprinklers and valves supplied by world-class manufacturers like JCI and Rapid Drop.  |

## FIRE DETECTION AND GAS SUPPRESSION

Whip Fire Projects has access to the best fire detection and gas suppression product brands backed by international approvals, such as UL and FM. Whip Fire is also registered with installation governing bodies, such as BSI and FDIA.



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## b. ADVANCED FIRE SUPPRESSION TECHNOLOGIES (PTY) LTD

Advanced Fire Suppression Technologies (Advanced FST) specialises in **fire detection and suppression protection for our clients' assets.**

Advanced FST is the official distributor of Johnson Controls products in sub-Saharan Africa. Johnson Controls is the largest fire protection group in the world, with the most advanced firefighting products.

Advanced FST services clients across all sectors, with nine strategically located branches in Musina, Steelpoort, Mokopane, Emalahleni, Johannesburg, Durban, Cape Town, Kimberley and Rustenburg.

Through our branch network and service depots we can provide clients with 24/7 and/or 365 days a year maintenance contracts or service level agreements (SLAs) to minimise downtime and maximise profitability.

### CLIENTS

The Advanced FST team has the technical expertise and capability, industry knowledge and geographic presence needed to provide the best products, systems and services to clients. This allows us to respond promptly and accurately to client needs.

### PRODUCTS AND SERVICES

Advanced FST has secured Johnson Controls' Ansul, SABO, SKUM foam and foam hardware distributorship. These products can be used in any market sector that requires fire protection.

Advanced FST has also secured Johnson Controls' FireClass detection and control systems – an internationally approved product with excellent features. FireClass has control panels to suit all needs, including the FC501 Panel – the most affordable “addressable fire control panel”, and the first “three-tiered detector” (for smoke, heat and carbon monoxide detection).

The Advanced FST installers and service technicians are internationally trained and available 24 hours a day throughout the year. We can also offer permanent on-site representation by means of SLAs with support of:

- » Engineered vehicle fire suppression systems
- » Engineered fire suppression systems for fixed installations
- » Smoke aspiration systems
- » Full range of fire extinguishers
- » Fire detection and control systems

### OTHER PRODUCTS AND SERVICES

- » CLEANGUARD fire extinguishers with DuPont FE-36
- » Twin-agent hose line fire suppression systems
- » Pre-engineered dry chemical piped systems
- » Inergen, Argonite, and other gaseous systems
- » Spill control equipment
- » Fireproofing (industrial/mining/building)

### APPROVALS

All product ranges are designed and manufactured to the highest possible specifications in a quality-controlled environment to ISO 9002.

Products are approved and underwritten by the following bodies:

- » UL (Underwriters Laboratories)
- » FM (Factory Mutual)
- » ULC (UL Canada)
- » SAA (Standards Association of Australia)
- » LYDS (Lloyd's of London)
- » DoT (Department of Transport), and more



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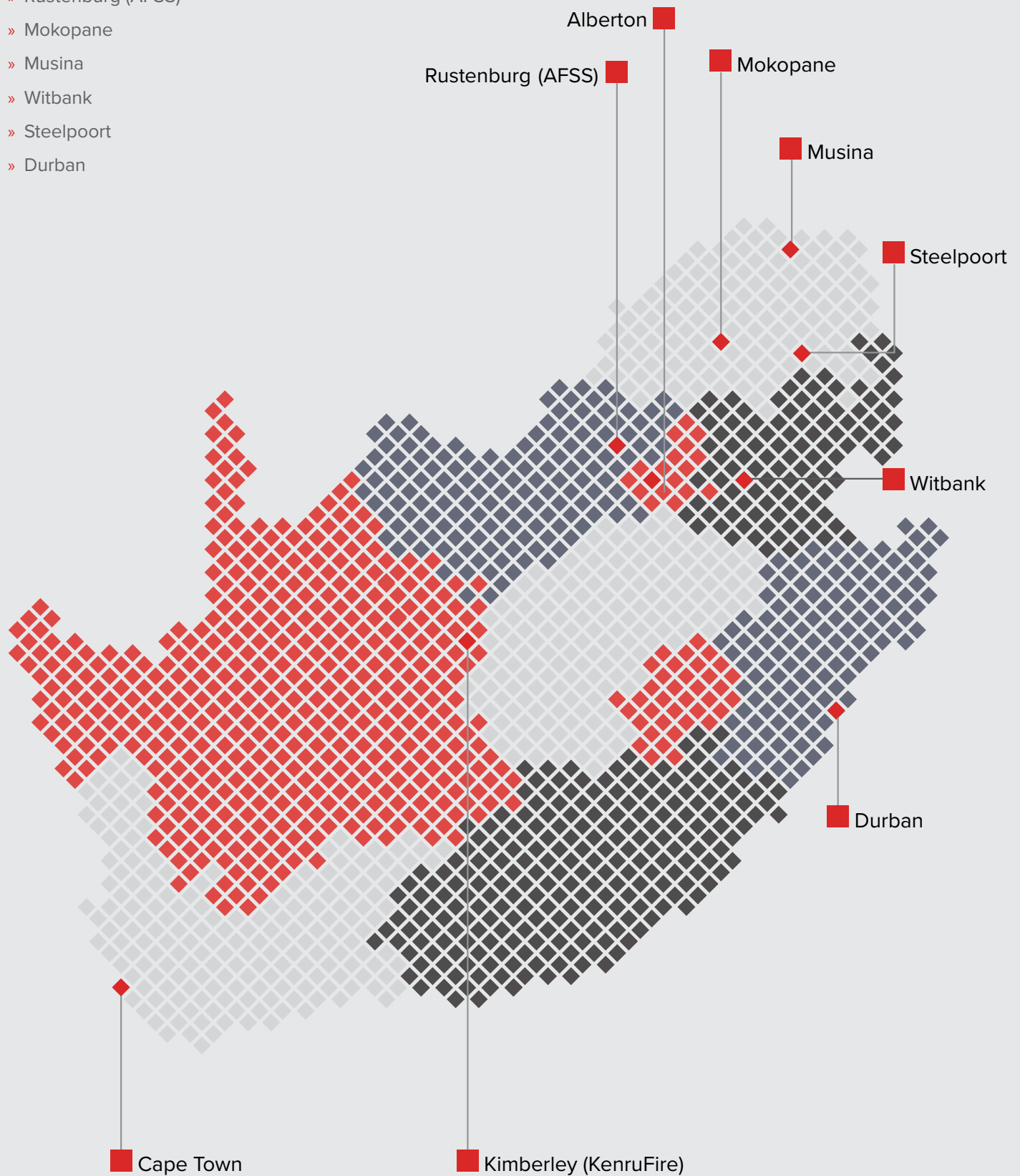
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## b. ADVANCED FIRE SUPPRESSION TECHNOLOGIES (PTY) LTD BRANCHES

- » Alberton
- » Cape Town
- » Kimberley (KenruFire)
- » Rustenburg (AFSS)
- » Mokopane
- » Musina
- » Witbank
- » Steelpoort
- » Durban



## c. ADVANCED LUBRICATION SOLUTIONS

*We increase equipment service life and productivity*

Advanced Lubrication Solutions (ALS) is the sole distributor of RAASM automatic centralised lubrication equipment in sub-Saharan Africa.

Designed to extend the component life of moving parts on machines, the system lubricates pins and bushes to reduce equipment wear and tear, maintenance costs and increase productivity. It is not unusual for ALS to ensure a return on investment of more than 500% during a five-year period.

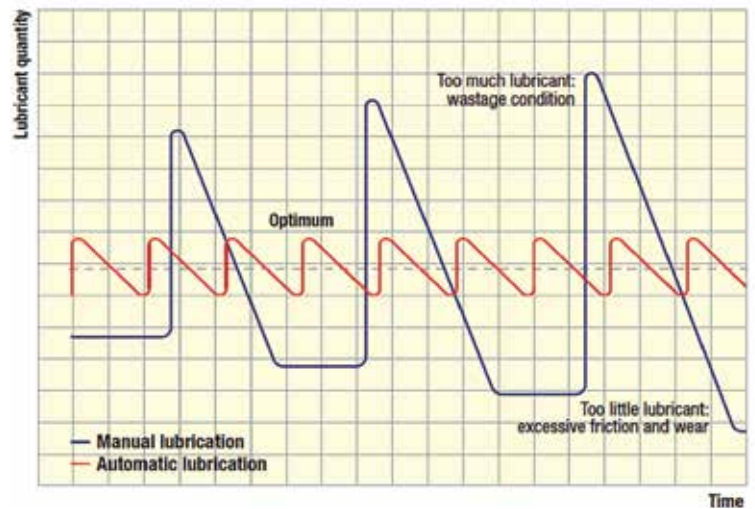
The RAASM range includes the progressive, single-line, dual-line and multiline systems for use in the earthmoving, transport, port, railway, farming, construction and forestry sectors.

ALS also offers the installation, maintenance and service of the Graco and Lincoln automated lubrication ranges.

Another major benefit of the ALS product offering is improved asset availability and uptime for all customers using these solutions.

Internationally trained and equipped with the most advanced technology available, all ALS installers and service technicians are available 24 hours a day on-site, throughout the year.

Given below is a graph comparing the various lubrication conditions, following the methods previously described.



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## d. INDUSTRIAL FIRE & HAZARD CONTROL (PTY) LTD

Industrial Fire & Hazard Control (IFHC) is the preferred supplier of fire, rescue and HAZMAT products and services to the petrochemical, oil and gas industries; local and provincial authorities; and forestry, military and port authorities on the African continent.

### PRODUCT RANGE AND SERVICES

Using only the best products on offer from Williams Fire & Hazard Control, Johnson Controls, and a select number of market leaders, IFHC offers end-to-end solutions for the three spheres of operation, namely:

- » Engineering, manufacturing and product supply
- » Servicing, repair and maintenance, and
- » Training, consultation and assessments

IFHC is also active in the mining and aeronautical industries, and works with refineries, processing plants and oil rigs across the continent.

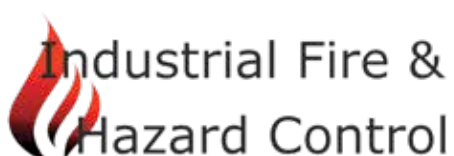
### PRODUCT RANGE

- » Manufacture and supply of fire, rescue, hazmat, and disaster management vehicles
- » Manufacture of firefighting trailers
- » Firefighting surfactants, including PKW and foam concentrates
- » Firefighting and rescue equipment
- » High-volume pumping and delivery devices
- » Mobile firefighting equipment
- » Vehicle-mounted and portable pumps
- » The latest technology in ultra-high-pressure equipment and applications



### SERVICES

- » Foam testing
- » Fire incident reporting application assistance
- » Fire investigation
- » Emergency foam supply
- » Firefighting foam training
- » Facility evaluations
- » Risk assessments
- » Risk mitigation
- » Repair and servicing of firefighting and specialised vehicles



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## e. FLAMEBLOCK (PTY) LTD

FlameBlock is a proudly South African company that engineers, manufactures and supplies intumescent and fire-retardant products for the fire engineering, mining, construction, commercial and industrial sectors.

Apart from developing and manufacturing fire retardant coatings, FlameBlock also supplies penetration blocks, panels, mineral wool products and surface coatings.

Traditionally, active fire suppression only referred to sprinklers and were the norm in the industry. The latest development in fire retardant and intumescent products has enabled passive fire suppression to be added to the arsenal of fire suppression solutions.

As a proud member of the Advanced Group of Companies, FlameBlock has access to years of fire suppression experience, in addition to its own engineering and design capabilities.

FlameBlock has a solid distribution network to serve and support our wide range of clients globally.

### PRODUCT RANGE

#### FlameBlock Wool

A high-density mineral wool board made from a non-combustible material for easy compression into difficult openings. Mineral wool is inorganic and ideal for thermal insulation, fire protection, acoustic control, and environmental management purposes.

#### FlameBlock Paint

A high-quality PVA acrylic paint for interior and exterior use. Available in various colours.

#### FlameBlock Shield

Fire-retardant mastic with insulating properties designed to stop fire propagation along electrical cables and service openings. It forms a barrier to prevent the spread of flames and toxic gases through service openings. FlameBlock Shield is used with FlameBlock Wool to create passive fire protection of cable and/or service voids. It is applied to FlameBlock Wool, 500 mm on either side of the barrier where any PVC or armoured cables penetrate the seal. It is easy to apply by hand, with a brush or a trowel.

#### FlameBlock Panel

A fire-retardant panel with insulating properties designed to stop fire propagation at all service openings.

Used with FlameBlock Coat, FlameBlock Panel creates permanent fire stopping in medium to large wall and floor openings.

FlameBlock Panel:

- » Can be specially moulded to meet specific requirements
- » Is fully functional immediately after installation
- » Is smoke-tight
- » Is easy to cut and drill

#### FlameBlock Topcoat

A high-quality acrylic waterproofing used in conjunction with FlameBlock Shield. FlameBlock Topcoat has been specially formulated to seal and protect all exterior surfaces. A flexible product with excellent water elongation properties, it can be applied to a variety of surfaces where a "water-tight" system is required.



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# EMERGENCY RESPONSE



## a. RURAL METRO EMERGENCY MANAGEMENT SERVICES (PTY) LTD

Rural Metro Emergency Management Services (Pty) Ltd was founded on the premise that communities and industries in Africa can benefit from innovative and cost-effective ways of delivering fire and emergency services.

Rural Metro Emergency Management Services, better known as Rural Metro, was established in 2000 and offers complete fire brigade services, training and disaster management. Rural Metro was founded on the principle that quality service delivery is dependent on the ability to adapt to changing conditions and to develop customer relations based on trust.

Its primary purpose is addressing African communities' and industries' need for innovative and cost-effective fire and emergency services.

The effective use of human and natural resources is key to Rural Metro's success in addressing the evolving nature of its clients' fire detection, prevention, and related emergency requirements.

Rural Metro's certified professionals are the pride of its **internationally accredited academy** that offers firefighting, disaster management and occupational health and safety training.

### SERVICES

- » Disaster management
- » Fire brigade services
- » Communication services
- » Fire safety
- » E-learning
  - » Firefighter, fire instructor and fire officer training
  - » Hazmat awareness and operations training
  - » First aid level 1, 2 and 3 training
- » Occupational health and safety training
- » SETA-accredited Microsoft Office Suite courses
- » Learnerships at NQF levels 4 and 5
- » Risk surveys and assessments
- » Evacuation planning
- » Fire investigations
- » Fire and rescue training
- » Supplying rescue and specialised firefighting equipment
- » Fire equipment supplies

#### Specialised emergency management services

- » Fire and emergency management services

### ACCREDITATION

- » SAESI-accredited training centre
- » IFSAC, SAESI and LGSETA accreditations offered
- » Department of Labour-accredited first aid training
- » NFPA 1041-registered course facilitators

### MEMBERSHIP

- » Disaster Management Institute of Southern Africa
- » Southern African Emergency Services Institute (SAESI)
- » Joint Oil Industry Fire Forum (JOIFF)
- » Fire Protection Association



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## b. MEDI RESPONSE HOLDINGS (PTY) LTD

*When your life depends on it*

Passion, expertise and quality drive Medi Response in the delivery of world-class emergency medical service solutions.

### ON-SITE MEDICAL SERVICES: REMOTE AND INDUSTRIAL SITES

Medi Response specialises in supporting clients who face sector-specific risks by placing appropriate emergency medical resources (such as ambulances, special-purpose rescue vehicles, paramedics and other clinical support staff) at remote sites or in harsh working environments, such as construction, mining and exploration sites.

### EVENT MEDICAL SERVICES

The event medical services division specialises in event-based risk management by drafting event medical operational plans and coordinating various types of EMS deployment at sporting, recreational and special events or corporate functions across South Africa.

### 360° GLOBAL

360° Global is an international patient concierge and repatriation service. In this context, Medi Response coordinates the global movement of patients in cooperation with a dedicated team of emergency care professionals.



### EMERGENCY MEDICAL SERVICES

In addition to a comprehensive ground ambulance provider network, Medi Response also conducts a dedicated emergency medical service operation in Johannesburg, South Africa. The operation supports patient transfers and project- or community-based emergency medical response and patient transport services.

### EDUCATION AND TRAINING

At Medi Response, quality care is placed at a premium. To ensure our clinical staff is informed of the latest industry developments, we established a training academy that also provides accredited training in first aid and occupational health and safety standards to individuals and corporate customers.

In addition to its regular service offering, Medi Response is able to supply a variety of exciting products to customers. This includes the AssistMe mobile panic button device, first aid kits, medical consumables, sanitiser and other medical grade chemicals, as well as personal protective equipment.



**Medi Response**  
*When your life depends on it*

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## ADVANCED GROUP CLIENTS

THE ADVANCED GROUP CLIENT BASE INCLUDES THE FOLLOWING COMPANIES, TO NAME BUT A FEW:



GLENCORE



DE BEERS  
GROUP OF COMPANIES



HITACHI

KOMATSU









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