

# SOLUTIONS FOR THE MINING INDUSTRY



Information systems

Business processes

Legal compliance

Standards implementation

**adamantium|se**  
BUSINESS COMMUNICATION MADE SIMPLE



# FUSING TECHNOLOGY AND LEADING PRACTICES

## WHAT WE OFFER

Adamantium Software Engineering consults to mining and industrial companies on the implementation of **BS OHSAS 18001:2008** compliant occupational health and safety programmes within the legal requirements of the **Mine Health and Safety Act** (both 1996 and 2008 acts) and the administrative requirements of the **Department of Mineral Resources**.

Following years of research and development we have created a synergy between the various components of safety management to offer the South African Mining industry a modern and effective solution to improve safety performance without impacting on production efficiencies. At the same time we created a framework to guide and assist safety management professionals in the day-to-day activities of responsible safety management.

## GUIDING BUSINESS

### IMPLEMENTING INDUSTRY STANDARDS

By implementing the local industry standard for **occupational health and safety management** (BS OHSAS 18001:2008) organisations are empowered to control its operational risks and improve safety performance. It is however quite difficult to implement a proper management system that addresses all the requirements of the standard and the Act. Our experience has enabled us to create an integrated solution to ensure full compliance to both areas.

But standards in themselves are not enough – our solution is based on a well-developed holistic approach, built on simple but clear principles – combining standards specification with common sense and the limitations of operational requirements. Most of these principles are already present in companies, but the integration thereof often fails. With our programme we have achieved the ultimate integration between all relevant aspects that may impact on safety and health performance without over- or under-emphasised any part thereof.

## SERVICES OFFERED

### TECHNOLOGY

- Management information systems
- Software implementation, customisation and development
- System integration

### MANAGEMENT CONSULTING

- Executive management programmes
- Assessments and audits
- Training
- Production and performance



# UNDERSTANDING THE PROGRAMME

## UNDERSTANDING YOUR WORLD

Once you understand your world and the risks it posed, you can start developing a plan on how to manage it effectively. The obvious departure point is to have a **complete risk assessment** done where all the hazards are identified and the risks assessed and prioritised. Most companies do this already at length, but the **information flowing** from this need to be applied throughout at all **down-stream activities**.

We put a high emphasis on this building block by ensuring that it remains focussed and reality based. Line managers, supervisors, employees and representatives (health and safety representatives and trade unions) in the workplace conduct these assessments themselves in a practice. For this purpose, we provide in-depth training and facilitation during each step of the process. By including all relevant stakeholders, full ownership of the solution is guaranteed.

## PLANNING TO CONTROL YOUR FUTURE-WORLD

Once the **workplace risks are known and understood**, you can do risk management planning. The programme is developed to ensure that all risks are addressed through the development of the **Codes of Practice, Standard Operating Procedures and Training Material**. Flowing from this is the development of **competency assessments, checklists** and more. This guarantees alignment throughout the entire safety process downstream between the risks identified in operational processes and your employees' competencies to perform them safely.

## REALISE YOUR MANAGEMENT OBJECTIVES

Our programme is developed to ensure the realisation of management actions diligently and without exception. Failing to actualise management commitment and intentions in a visible and practical fashion often presents through accidents. Our team of professionals will assist your team every step of the implementation process by means of effective training, facilitation and guidance.

Our approach takes care of this by means of our simple but effective **management system, training and facilitation**. The entire process is documented, integrated and tracked. All non-compliances are immediately highlighted to allow for immediate corrective actions to be taken. Administrative functions required for proper safety and health management are supported through Adamantium One – our flagship software platform for safety management solution.

## KEY CHARACTERISTICS

- Simple to use, reality driven and understandable
- Integrates all relevant aspects into one programme
- Develops a high level of safety and health awareness and competence
- Tightly integrates with and add value to the organisation's production programmes
- Takes care of legal and regulatory requirements
- Answer to the requirement of the reasonable man with complete day-to-day recordkeeping and tracking
- Enables the establishment of a overall safety culture within the organisation
- Competitively priced for big and small companies



## SUPPORTING BUSINESS

### RELATED SOFTWARE PRODUCTS

#### ADAMANTIUM CURA

##### *Human resource management*

For specific deployment to the South African mining sector Adamantium CURA is an industry-specific solution for employee information management. As solution to junior miners it offers good value for money and is integrated with our flagship product, Adamantium ONE.

#### ADAMANTIUM IM

##### *Secure corporate instant messaging*

Adamantium IM is a secure corporate messaging suite for use in modern organisations. It offers users functionality to communicate in real-time between desktops, regardless of the physical distance between them. When organisations have multiple sites or offices, several servers can be connected to facilitate inter-server and inter-office communication, for example clients, branches and divisions. Adamantium IM furthermore offers SMS integration to allow users to send SMS messages (and receive replies) directly from their desktops.

### GUIDING EMPLOYEES THROUGH SYSTEMS

We believe that information technology offers a **long-term advantage** in **improving risk- and safety management programmes** on all organisational levels. Our solutions enable companies to **effectively manage** their safety programmes by ensuring legal compliance, driving operational safety activities, processing information and distributing knowledge.

### ADAMANTIUM ONE

Our **integrated safety- and risk management solution** enables the effective management of daily safety management activities by **scheduling** relevant events, providing a complete **repository of required information** and empowering managers to control their areas of responsibilities with an **action manager**. In the past, one of the key missing elements to effective safety management was the effective collection, management and redistribution of information. After more than six years' research and development our flagship mining product, Adamantium ONE has been released to the South African mining sector. The product encapsulates the essence of daily safety information control and management in a single, integrated management platform.

By building the system on the **closed-loop** principle of continuous improvement, it enables our clients to improve their safety performance based on operations-specific feedback. By combining leading industry practices with legal requirements and ease of use, we managed to develop a platform that adds value to organisations' wider safety management programmes and systems.

Integrated with other systems, it offers an uncompromising set of features that will ensure that cross-functional information flow is established and maintained to guarantee an enterprise-wide focus on safety management.

# PRODUCT AND SERVICE FEATURES

## ADAMANTIUM ONE KEY FEATURES



### SAFETY MANAGEMENT

Incident register, medical station and injury register, accident investigations, SAMRASS reporting, inspections, meetings, emergency drills



### DOCUMENT REPOSITORY

Store documents related to safety, risk management and training, i.e. standard operating procedures, codes of practice, training material. Can be customised to support user-defined document types.



### TRAINING RECORDS

Track employees' training records, training providers and courses. Keep record of certificate expiry dates, refresher training and medical certificates. Record and track planned task observations (PTO's) and competency assessments.



### OCCUPATIONAL HYGIENE

Create and manage homogenous exposure groups, record group- and individual exposure levels, create individual reports, generate regulatory reports.



### INFORMATION FLOW

Inform employees of their responsibilities through system-generated emails and reports.



### RISK MANAGEMENT

Baseline-, issue-based-, continuous-, task and environmental risk assessments. Safe-workplace declarations, stop-fix notes.



### ACTION MANAGER

Create system-wide remedial/corrective actions and assign responsibilities. Line managers can track progress and accountabilities.



### TASK INVENTORY

Define organisation-wide tasks, associated risks and join together into job descriptions.



### PERSONAL PROTECTIVE EQUIPMENT

Track PPE issues to employees.



### DATA INTEGRATION

Integrate with existing systems or deploy our Human Resource management platform

## PROFESSIONAL SERVICES



### HEALTH AND SAFETY

Establish occupational health and safety management system within the organisation according to the requirements of the Mine Health and Safety Act.



### DOCUMENTATION

Facilitate processes for the development, revision and management of documentation related to the on-going management thereof.



### BUSINESS PROCESSES

Implement and oversee business processes related to the effective management of health and safety.



### RISK MANAGEMENT

Develop and implement risk management framework and management practices. Facilitation of the risk management process.



### TRAINING

Training and development of key staff to oversee and manage the process after implementation.



### AUDITS

Conduct bi-annual audits after implementation to ensure the on-going success and maintenance of the implemented business processes and software system.

Adamantium Software Engineering was founded in 2005 and is a specialist software company (Independent Software Vendor or ISV) that enables its clients to maintain a cutting edge communication and technology frameworks. The company focuses on the development of innovative business solutions through consulting, integration, management development and software creation and -implementation.

Our solutions are deployable in any sector, but our focus is currently strong in the areas of finance, metals & mining, media, biometrics and sales & marketing.

We specialise in web-based safety management systems, corporate instant messaging solutions, client relationship management (CRM) consulting and software development, business process optimisation and -automation (BPOA), management information systems (MIS) and Internet & Intranet integration of corporate information and databases.

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