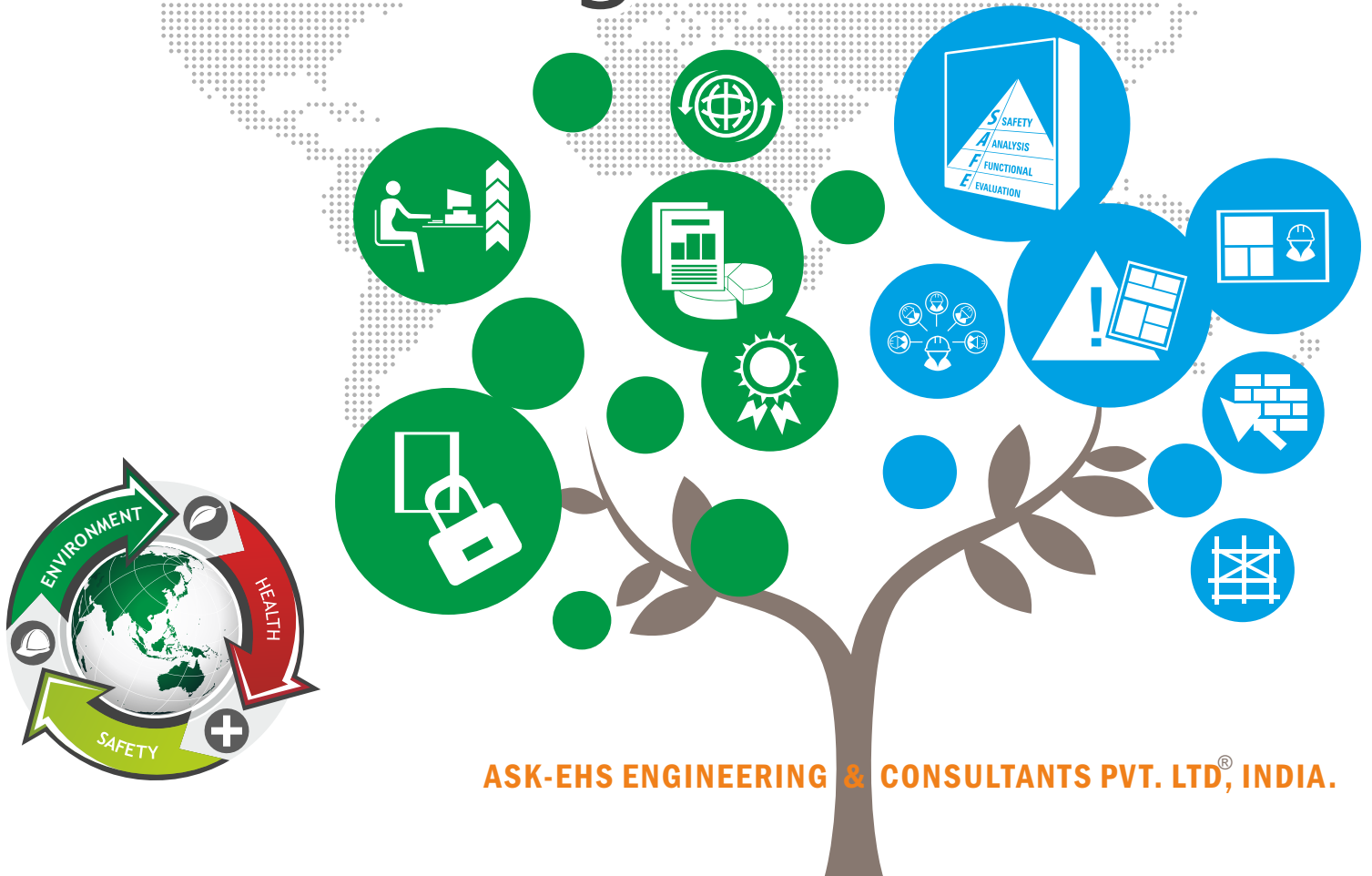


Innovative Software Solutions to Improve

EHS Management





“Since 2005, ASK-EHS software has been providing innovative solutions to help the EHS department in their management while controlling costs and reducing risks. Today, ASK-EHS software is the leading software company exclusively devoted to serving the needs of the EHS units. Our solutions reflects an in-depth understanding of the EHS industry and what it takes to succeed – based on sizable years of working with firms like yours”

Technological Approach

Today's EHS marketplace is complex, multifaceted, highly risky and global. It is the business of SMART and TIMELY decision. EHS business directly deals with ENVIRONMENT, and SAFETY of human lives, as such demands high level of ACCURACY, PRIORITY and MANAGEMENT. In this age of advanced communication system employing internet, wireless connectivity, Computers/Laptops, PDAs/Smartphones/Tablets which have almost become household/office facilities, it is worthwhile to deploy software solutions as efficient, accurate and desk-serving facilities.

Why ASK-EHS?

EHS domain expertise

- ▶ **EHS Experts** involved right from the conceptual phase, including detailed study of requirement, client procedure, analysis of EHS data to understand key areas and functionalities to be highlighted and preparation of software to achieve the target
- ▶ Pool of talent, expertise, experience and resourcefulness in EHS field
- ▶ For latest technologies and statutory/legal EHS advice, tie-up with national and international networks of expert organizations

Software development expertise

- ▶ In-house **Software Division**
- ▶ Specialized on Latest Technologies and custom-made software development like Microsoft SharePoint, .NET, SQL Server, Xcode, Android Studio and Cloud computing services like Microsoft Azure & Amazon Web Services
- ▶ Equipped with team of **Software Experts**, Team comprises of Business Analysts, Project managers, Project leaders, Quality assurance team, Developers, Implementation team, Designers
- ▶ Experience of various software development life cycle models like Waterfall, Rapid prototyping, Scrum - Agile development

EHS Integrity

Versatile combination of **EHS EXPERTS & SOFTWARE PROFESSIONALS**, whose combined capabilities serves the clients in much better way. EHS experts are involved right from the conceptual phase, detailed study of requirement, client procedures, and analysis of EHS data to KEY areas & functionalities to be highlighted and preparation of software to achieve the target.

We are front-runner in creativity & innovation in Environment, Health & Safety field through our well researched solution and have established ourselves as an out-of-the-box **EHS Software Development Company**. As EHS Consultants, we translate our expertise into value for our customers through our professional software solutions & EHS consulting.

Case Study

Bajaj Auto Limited (India)

Bajaj Auto Limited has consistently been at the fore front of Automobile manufacturing in India. There are various big manufacturing plants in a single campus which is widely spreaded. A lot of mechanical, electrical and different engineering work happens as a routine and hence health and safety always remains the primary concern. They had permit to work process but it was purely a manual paper based process.

key challenges

- ▶ A single workflow of the permit system, that maintains the uniformity across the plant.
- ▶ Reduce the time to complete the permit process
- ▶ Include Various documents and related artifacts required for the job, which varies from job to job instead of single document format.

What we did

- ▶ An automated software system with the customized Permit to Work flow as per the need of Bajaj
- ▶ A web based solution, that can be accessed from any corner of the campus within the network infrastructure of Bajaj
- ▶ An automated process that will include all/any documents related to a particular job.

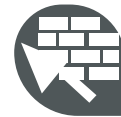
Results

- ▶ A uniform and well defined process of PTW
- ▶ An automated system, saving lot of time for employees walking around places to places for permits
- ▶ With anytime and anywhere approval access, resulted into saving total time that was spent waiting for approval in the absence of approver



Permit to Work Software

e-PTW software proves to be a very useful and convenient Intranet based tool to establish Control, Coordination and Communication following correct work sequences among the participating agencies. Management of PTW documents, certificates, isolation (LOTO) and JHA. System supports the full cycle of Permits and Certificates and comes with a customized workflow to validate steps to promote safe working practices.



Job Hazard Analysis Software (JHA / JSA / TRA)

Maintains register of hazards, their preventive control measures specific to various activities. Software has database of industry specific hazard & control measures, which can be enriched regularly by users in real-time environment.



Lock-out Tag-out Software (LOTO)

Helps user to create a program with standardized procedures for workers to follow. The Software allows you to identify and label all of your energy control points with printed lockout tags and lockout labels.



Accident / Incident / Near-miss Recording & Analysis Software

Complete life-cycle approach to manage all of the aspects and stages associated with EHS incidents & near-misses including; internal reporting, investigating, implementing corrective actions, and external reporting.

Case Study

Equión Energía Limited (Colombia)

Equión Energía Limited is the new brand of the branch established in Colombia by British Petroleum. Largest Oil & Gas producing company in Colombia by serving 35% of national energy demand.

Permit to work has been very vital but not effective there. They had an existing paper based system running but was not proving to be full proof and effective.

key challenges

- ▶ The existing system was dated and used a paper based system that included many intricate sub-procedures within a single frame
- ▶ Implementation of JHA and Risk analysis aspects in an automated system
- ▶ A thorough understanding of isolation mechanism and hence implementation of the same which adheres to their system
- ▶ A thorough understanding of the Oil Refinery domain was a bit of a challenge considering the magnitude of the project and work carried out there

Results

- ▶ An automated software system with the customized Permit to Work flow as per the need of Equión Energía
- ▶ Total automated process including Risk analysis components
- ▶ An interactive backend administration portal for configuration and settings



Scaffolding Management Software

Software system supports the full cycle of scaffolding management and comes with a customized workflow to validate steps to promote safe working practices. Manage Scaffolding requests, their approvals, production and material inventory effectively and efficiently.

Scaffolding management software controls the status as request is moved through during its lifecycle. It produces reports, graphs, KPIs & analytical information to make smart business decisions. Software stores records of inspection, and scaffold tags. It is easily accessible via smart devices. Scaffolding Management Software thus values Man, Material, Time and Productivity.



EHS Management software (SAFE)

One platform to manage all EHS processes, Real-time EHS records, compliance at your fingertips, allowing easy management of tasks/duties/records, visibility and complete control of your organization's EHS performance.

SAFE is a revolutionary web based application with user friendly interface. It is designed to provide prompt and flexible solutions improving your EHS performance and managing your EHS department. This application can record EHS performance including accomplishments, performance gaps, critical incident and near-miss data. SAFE can be tailored to suit your requirements. It is very cost affective for small organizations, as, you can select modules suiting your requirements.

Case Study

Kiewit Corporation Limited (USA)

Kiewit Corporation is an employee-owned Fortune 500 contractor based in Omaha, Nebraska. Privately held, it is one of the largest contractors in the world having 50,000+ employees over the globe. The employee-owned company operates through a network of offices and projects in the United States, Canada and Australia.

Key challenges

- ▶ Single plant/project has 600+ scaffolders at peak. It was completely managed manually.
- ▶ It became a challenge to the company to track, manage, follow, the activities of scaffoldings across the projects. A lot of manual time and effort was being spent consolidating the information from all across.
- ▶ Target number of users were approximate 2000 and estimated 200 concurrent users
- ▶ Being a foreign MNC, there was a bit of concern about the expertise of ASK-EHS in the domain of Scaffolding, HSE & IT.

Results

- ▶ A uniform and well defined process of Scaffolding
- ▶ Approval time reduced from 3 days to almost zero time due to the real time systems.
- ▶ Features such as notification and alerts for tasks and activities reaped benefits of anytime/anywhere. Resulting into saving lot of time.
- ▶ It used to take approximately 100 hours to prepare report, which now can be visible on a single click.
- ▶ Easy to track not in use scaffold, hence free up of space and material on time



EHS Inspection & Audit Management Software

Automates the process of auditing & surveys, including internal & external audits. Key functionality includes; Build checklist, Plan audit, Perform audit, Track audit findings, Investigation, Corrective Actions & Preventive Actions.



EHS Training Management Software

Schedule, track and report of employee training, certifications and skill-set. Reminders for the pending training programs based on training matrices and employee skill-set. Software offers need identification, training planner, training scheduler and training assessment functionalities.



Safety Equipment's Inspection Management Software

Save paper, as complete system is paperless. Inspector can do the inspection using handheld RFID reader. Checklist to do the inspections available in the reader only, Ensure physical presence of Inspector while doing inspection.



Employee Health Management Software

Health Management Module helps organizations to collect and organize employee primary health statistics, their continuous health checkup and monitoring data to effectively manage employee health based on history and ensuring ongoing compliance with regulatory requirements and management system standards.

Case Study

CTCI Corporation Limited (Taiwan)

CTCI is a Construction based company in Taiwan. It develops huge commercial and industrial structures across the Taiwan and is associated various other companies across the globe.

With the kind of business CTCI has, Scaffolds are a very integral and important area of the business. However, its very time consuming and difficult to manage the scaffolding activities manually across the project(s).

Key challenges

- ▶ Something new in terms of Scaffolding automation for CTCI, as traditionally they have been managing this manually with minimal use of technology.
- ▶ Communication challenges due to language barriers.
- ▶ Lack of Thorough Scaffolding process, even manually.

Results

- ▶ A uniform and well defined process of Scaffolding at CTCI
- ▶ An easy and transparent approval process is saving lot of time and resources among teams.
- ▶ Man power and Material management modules helps CTCI saves lot of costs in terms of time and material aspects
- ▶ Hours and Hours spent to make reports is being replaced with real time reports, resulting to accuracy, time saved and transparency across.
- ▶ Online Training(s) to CTCI personnel to train on software and its implementation.



Employee Id Badging Software

ID Badge Software is a replacement to nightmares of managing employees' information with an awkward mix of spreadsheets, word documents, database files and cumbersome email folders.

ID Badge Software maintains record of employee's, contractors easily and efficiently.

1. Highly intuitive software application, that helps in storing and tracking employee's information along with their photographs (employee id card).
2. Id card software can be customized as per client's requirements to print unique employee id cards.
3. These photo id cards can be used while employees are in the office/site premises or when they leave office/site premises.
4. Get best compatibility and suitability with most of computer operating systems.



EHS Portal

EHS Portal or HSE portal is a specially designed webpage of an organization, which Enables, Engages and Energizes Safety Professionals to practice "Safe Working Environment". For Multi-National Companies and Mid-Sized Organizations it is an easily accessible, highly interactive and relevant tool which can be customized based on your distinctive or integrated needs. Knowledge Sharing and Involvement of employees are the driving forces of an EHS Portal.

With cutting edge technology and compatibility to desktop, laptop, tablet and mobile, EHS portal allows sharing of information sitting in any part of the world within a fraction of a second. EHS Portal is a cost effective and efficient way to share and spread EHS knowledge, safety awareness, safety related news, safety articles, blogs, company policies, company progress reports, hazard alerts, permits issued, announcements, events and event calendar.

Mobile Apps

Near-miss Mobile App

- Supports Near-miss / Hazard / At Risk Behavior
- Report it anytime & anywhere
Works even when offline
- Add pictures
- View & Track your action items
- Get alerts
- Data can be saved as draft
Synchronization with central repository

BBS Mobile App

- Customizable BBS checklists
- Developed with – 'Keep it Simple'
Alerts of your planned observation(s)
- Add observation picture(s)
- Works even when offline
- Synchronization with central repository

Equipment Inspection App

- Supports barcode, RFID & NFC technology*
- Configurable checklists
Alerts of your planned inspection(s)
- Add Inspection Observation Picture(s)
- Identify, Assign & Track Action Items
- Works even when offline
- Synchronization with central repository

*Mobile device should have internal/external interface for RFID and NFC

Other software solutions to support & improve EHS Management System



Document Control



Register of Regulations



Material Safety Datasheet Management Software (MSDS)



EHS Meetings

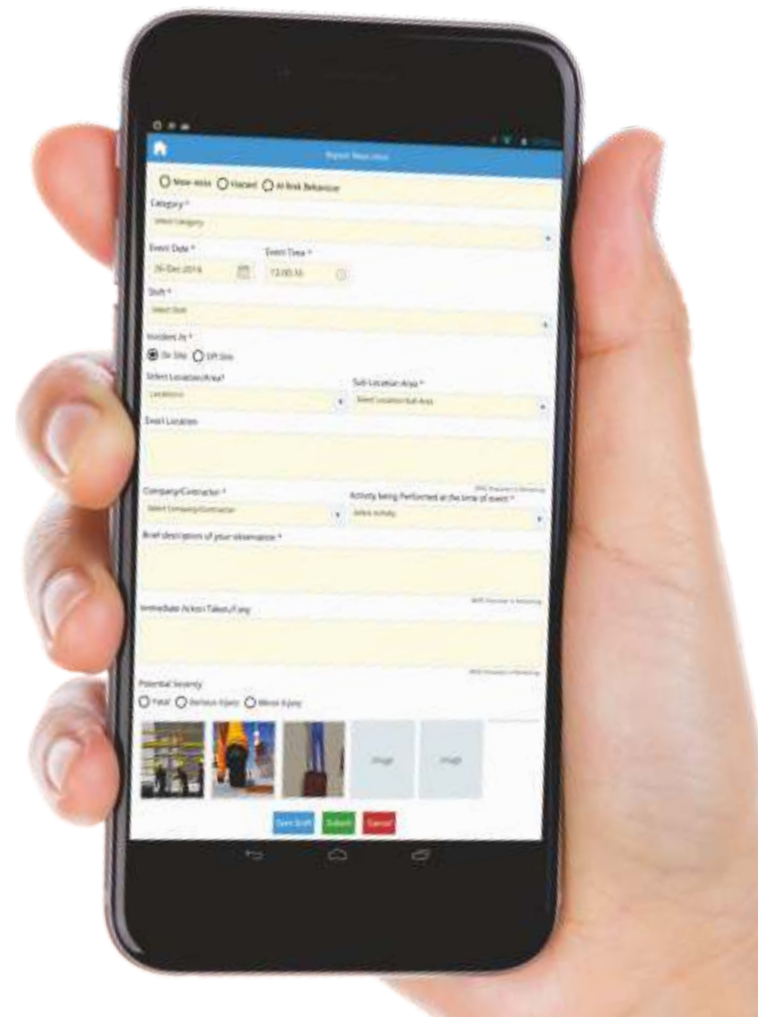


PPE Inventory



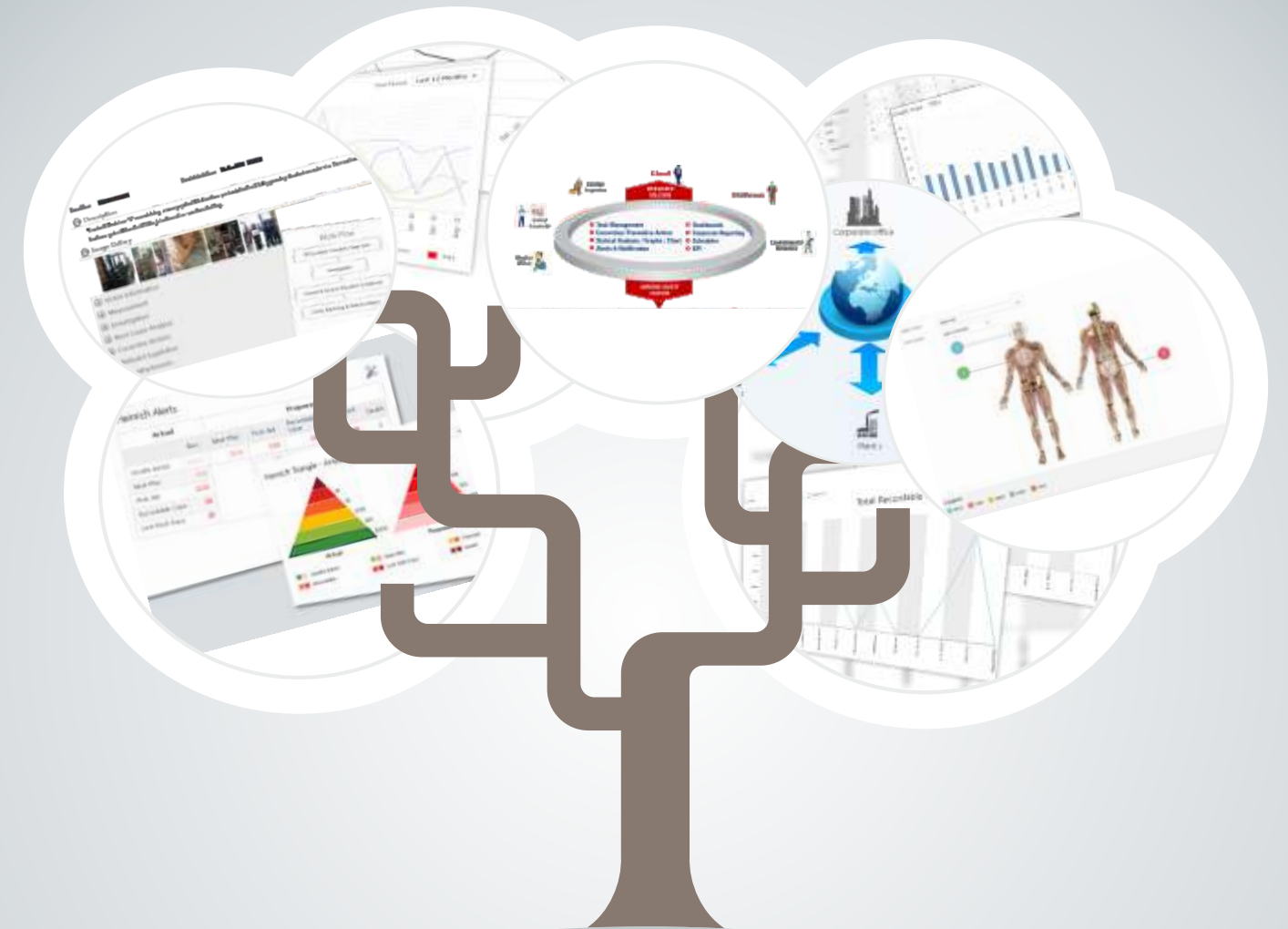
Premium clients are

- Bunduq Oil Company Ltd, Abu Dhabi (UAE)
- Coastal Gujarat Power Limited - A TATA Power Company (India)
- Kiewit Offshore Services Limited (USA)
- Hooker Cockram Corporation Pty. Limited (Australia)
- Hazira Port Pvt. Ltd, SHELL Oil & Gas Limited (India)
- Gujarat Gas Company Ltd, A Subsidiary of BG Group plc, UK (India)
- Torrent Power Limited (India)
- USV Pharmaceuticals Limited (India)
- Indian Oil Corporation Limited (India)
- Siemens Limited (India)



Benefits of using EHS Management Software Solutions

- Centralize & Share information organization-wide
- Evaluate organization's safety performance in an instant
- Develop paper based ehs management procedural flow electronically, for example Permit to Work System, Scaffolding Management System, Job Hazard Analysis
- Reduce incidents and save time, money and resources by providing analytical data instantly
- Identification of safety hazards and risk assessment
- Achieve Compliance and Government regulations
- Accident / Incident/ Near-miss recording and Analysis and define Corrective/Preventive Action
- Transparent view of organization safety performance considering analysis on Accident/ Incident/ Near-miss, Trainings, Audit results, Observations, Drills, Tool box meetings etc...
- Streamline your Safety Processes and eliminate duplicate data
- Organize schedule, store & track record and define action of your safety program to drive result
- Set Personalized Key Performance Indicators (KPI) & track performance of your organization
- Generate history data by single click to learn out of your experience
- Generate Project site/ Plant / Corporate reports with graphical presentation and comparison chart on single click
- Give warnings and alerts as per defined criteria
- Knowledge base generation & sharing
- Prevention, planning & monitoring of activities based on the data analysis
- Increase Productivity & cost savings
- Task Management and Notifications - Automate the process of alerting employees of overdue tasks with notifications that ascend the chain of command if requirements are not fulfilled
- Constant monitoring & graphical reports against Corporate Bench-Mark
- SAVE Man-days by avoiding task of generating cumulative reports, trends, statistics



Conclusion:

Although COST benefits are secondary to that of safety it is beneficial to understand that adopting an electronic safe system of work can substantially contribute to the goal of operating excellence while reducing operational costs relatively well.

In Summary, benefits are based on more effective and efficient administration systems to enforce safety procedures prior to, during and after work activities as well as achieving fewer incidents due to GREATER SAFETY VIGILANCE.



Our Range of Services

- EHS Management Consultancy & Ownership
- Outsourcing EHS Professionals
- EHS Trainings
- Animated Safety Videos & Movies
- EHS Plans & Procedures
- EHS Audit & Assessment
- EHS Software Solutions
- Scaffolding Management System
- Oil & Gas Operational Safety

To learn more about ASK-EHS solutions – and how they can be tailored to your specific operational challenges – visit our website: www.ask-ehs.com

ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007 Certified Company

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