Client Reference
Mining | Coal
Compliance Dashboard

Client Background

Our client consists of 4 mid-size coal mines, covering underground, opencast, beneficiation plant as well as discard handling disciplines. The coal mines supplies coal to both inland, Eskom, as well as export markets. The underground mines consist of mechanised sections in low, mid and high seam applications with the following equipment suite: Continuous miners, shuttle cars, roof bolters, feeder breakers as well as a suite of supporting infrastructure such as conveyor systems, electrical, instrumentation and water reticulation. There is also secondary support equipment such as tractors, LHD's, MPV's and LDV's.
The 4 mines are serviced by 3 beneficiation plants. The asset base consists of both the clients as well as outsourced ownership.

The website app
Compliance Dashboard

"The compliance dashboard gives me a quick overview per site. It is easy accessible, quick to see gaps and address the gaps. It gives me peace of heart that all sites are complying to the law".
Client – Engineering Manager

Key Challenges

- How to effectively monitor and maintain safety issues in mining operations?
- Do we have proven safety procedures to prevent incidents?
- Are we meeting safety compliance standards to pre-empt or even mitigate incidents?
- How can we track and show dashboards of outstanding issues relating to compliance?

Value Add

The old Compliance Dashboard

The original Compliance Dashboard was created in Excel about 4 years ago.
The sheet was updated monthly by the different team members. Some of these team members, but not all, had access to the local server. This means that when a team completed the compliance items and ratings, it had to be updated on a master document on the server by the AC Engineer.

The new Compliance Dashboard

A website App, that is linked to SQL database was created where inputs per team member can be done. Outputs (Dashboards) is easily accessible and visual.

The compliance dashboard is split up in 4 categories:
- Risks
- Safety Awareness
- HSEC Initiatives Compliance
- Critical Controls

Tools and Technology

- SQL database
- Website App with secure login per user
- Export functionality to Excel

Pragma Intervention

- Pragma on-site team created the first draft of Excel sheets to monitor the compliance per site.
- Monthly updates to the master sheet was managed by Pragma on-site team.
- Storyboard for Website App development was created by Pragma AC Engineer.
- Development of the Website App was done by a third party supplier.
- Hosting are done by the same third party supplier.
- Pragma on site team monthly intervention for monitoring and management of compliance dashboard.
- User intervention occurs through the Pragma on-site team
- User creation and updates done by the Pragma on-site team together with the third party supplier.