

Case Study

Denver Technology 

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Refinery Induction System BP Kwinana

Client Profile

BP Refinery Kwinana Pty Ltd is one of Australia's largest and most complex petrochemical refinery sites, producing a range of products for both domestic and international markets.

Denver Technology's long and successful relationship with BP Kwinana spans more than 18 years. During this time, Denver has provided a diverse range of services to meet BP Kwinana's changing business requirements using world's best practice.

Denver's ability to consistently deliver a competitive advantage through industry experience, expertise and innovation culminated in the company being awarded a comprehensive outsourcing contract for IT support services covering infrastructure management, project management, Oracle database administration, applications support, and assistance with ongoing maintenance of business critical process control networks.

For further information about BP, please visit www.bp.com.au.

Business Situation

Much of the maintenance and support work for the BP Kwinana Refinery is performed by independent contracting companies.

In line with BP's commitment to health, safety, security and environment (HSSE), employees of these companies must attend an induction session before working on the refinery site. The purpose of the induction session is to educate the contractor workforce about the potential hazards and health risks associated with working at the refinery.

The existing manual booking system for induction sessions was haphazard and outdated, and the BP HSSE team wanted a more efficient way of booking in participants and preparing them for these sessions.

Challenge

Denver Technology was engaged to design and implement a computer-based system to book and prepare the contractor workforce for the HSSE BP Refinery induction sessions.

The new computer-based booking system was to be a two-part solution. First, the system had to provide a web-facing application for contractors that would allow them to view a pre-induction slide pack, sit an on-line quiz and apply for enrolment in an induction session.

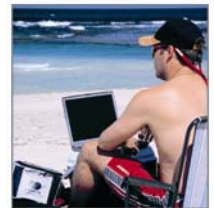
Second, the system had to provide an intranet-facing application that would enable BP HSSE staff to schedule inductions and book in and reschedule participants, as well as edit quiz questions and slide pack images.

Solution

The new BP Kwinana *Refinery Induction System* solution was delivered in the following phases:

- Web-facing induction application system.
- Intranet-facing induction register.
- Integration with Cardax card access control system.
- Integration with Maximo accounting system.
- Time management reporting.

The system was developed using the Microsoft ASP.NET framework with an Oracle back-end.



Benefits Achieved

Denver Technology's BP Kwinana Refinery Induction System solution has realised the following benefits:

- Replaces the old manual induction session booking system with a more efficient web and intranet-based system.
- Meets security needs by allowing only BP supervisors to book induction participants and only participants from an approved company to apply.
- Allows applications to be made from anywhere in the world.
- Enables interactive preparation of participants through pre-session quizzes.
- Provides information on induction sessions and bookings to BP staff.
- Manages class numbers.
- Highlights participants due for two-yearly refresher courses.
- Maintains a link to the contracting company and BP supervisor for management reporting and integration with other BP back-end systems.

"I was responsible for improving the induction process overall and was impressed with Denver Technology's ability to immediately understand our requirements for the online booking system. The team from Denver took on board everything we wanted but they also took the initiative to contribute their own ideas. The Denver team member who worked with us on a daily basis really put his heart and soul into it."

Claude Quinones
Manager Fire and Emergency Response
BP Refinery (Kwinana) Pty Ltd



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