



HAZARDOUS AREAS

At Engenuity Solutions, we are proud of our ability to provide hazardous area design & classification services to ensure your workers and operations remain safe from potentially dangerous events. We:

- Have a proven track record of delivering valuable classification information in a clear and concise manner.
- Utilise our in-depth knowledge to design safe and compliant installations.
- Bring extensive and insightful experience from a variety of industries to the table.
- Value our customers and base our success upon satisfied clients.

OUR SOLUTION OFFERING

Hazardous area compliance is a topic that has become increasingly crucial in a variety of operations. Businesses ranging from miners, oil & gas, industrial processes and transportation to shopping centres, councils, manufacturing facilities and academic institutions use or store substances that, when combined with the use of electrical equipment, can create an explosive environment.

To keep personnel safe and operations functioning, there needs to be clear classification and implementation of procedures around hazardous areas. The nature and extent of the hazardous area must be well-defined, as well as ensuring that any potential electrical hazards are removed or mitigated.

Engenuity has a proven and reputable record in delivering compliant and fit for purpose hazardous area solutions, including:

- Hazardous area classification & assessments
- Design for electrical equipment & installations in:
 - Explosive vapour atmosphere
 - Explosive dust environments
- Developing hazardous area dossiers and risk management plans

Our engineers are fully conversant with AS/NZS 60079, ensuring that we provide you with the very latest standards of safety and quality.



SAMPLE PROJECTS

Newcrest Mining – Lihir Island (PNG)

On site inspection and reviews of bulk fuel storage, generation systems and process plant areas using potentially hazardous materials at Newcrest's Lihir Island gold mine. Once identified, classifications were performed for each area with recommendations provided to achieve compliance and designs delivered where electrical equipment could not be eliminated from the zones.

Mineral Technologies – Spiral Manufacturing Facility (QLD)

Inspection and classification of spirals manufacturing facility on the Gold Coast. The facility included storage, pumping, spraying and curing of epoxies that produced a hazardous vapour until the final product was completely cured. A staged approach was developed based on risk-assessed priorities to design, upgrade, reconfigure equipment to reduce the risk, as well as design and implementation of a gas monitoring system.

Freemantle Port Authority – Kwinana Bulk Jetty (WA)

Review of Kwinana Bulk Jetty hazardous area system including the hazardous area classification report and isolation procedures for the Manifold area, Berth 3 and Berth 4. Provision of recommendations to meet requirements of the latest hazardous area standard series (AS 60079) along with reclassification and hazardous area calculations of the sites to latest standards.

Rockhampton Airport – Aviation Fuel Storage and Refuelling Facility (QLD)

Assessment and classification of existing aviation fuel facility, particularly to accommodate new electrical and lighting upgrades in the area.



WHY ENGENUITY SOLUTIONS

Trusted experts - We are experts in our field and value the trust placed in us by our clients.

Innovative - We offer a holistic and innovative approach to our audits and investigations, maximising value from your assets while maintaining integrity and safety.

Mindset - We possess not only a depth of auditing expertise, but a breadth of experience in a variety of other industries which fuels our inventive thinking.

Solutions - We have a proven track record of delivering valuable & original solutions to complex & challenging problems.

Quality - We execute systematically and with discipline to ensure high quality; yet remain nimble enough to quickly respond to a project, market or technological change.

Outcomes - We work with you to find the best possible solution for challenges that others can't solve, delivering nothing less than the best.

