

Transportation Business Group

Delivering The Cost Effective Solution



VECTRA's Transportation Group provides the full spectrum of services from specialist advice to total project capability, and is committed to assisting clients find quality solutions.

The services we offer are comprehensive and practical, provided by a team with extensive experience working for a diverse range of operators, manufacturers and regulators within the transportation industries.

Overview of Services

Systems Engineering

Established through supporting engineering programmes on major rail infrastructure projects, our Systems Engineering Group offers services that aim to save costs by:

- Ensuring that a system can perform to specification and be economically supported throughout its lifetime,
- Optimising the process of specifying, procuring or introducing a system,
- Identifying and applying a structured testing approach to ensure demonstration of compliance,
- Securing system delivery by taking steps to manage technical risks.

Safety Case Preparation and Management

Safety cases are a requirement of regulatory-driven industries, including the transportation industry. VECTRA offers a broad array of skills in support of safety analysis and safety case development to address situations, ranging from small systems and processes to major industrial installations

Hazard Identification and Analysis

We can provide comprehensive support in hazard identification and analysis through the application of safety engineering studies, assessments, reviews, audits, HAZOP studies, etc. We have the expertise to provide the techniques, and the versatility to tailor them to clients' specific needs.

Quantified Risk Assessment

VECTRA is a recognised specialist in the development of QRA methodologies, with many years experience of their application within the transportation industry.



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Human Factors

We use a number of techniques to identify potential human errors, their possible consequences, causes, and likelihood of occurrence. The information generated can be used for; quantitative or qualitative risk assessment, it can provide input to a safety case, and act as a mechanism for prioritising improvements.

Risk Management

VECTRA provides a full range of cost-effective risk management services, from strategic consultancy, through implementation management, to hands-on implementation support, to assist organisations meet their business objectives.

Reliability, Availability and Maintainability (RAM) Analysis

Our engineers have expert knowledge of a variety of reliability-based analytical techniques, aimed at establishing, improving or optimising operational performance and maintenance effectiveness.

ALARP Assessment and Cost Benefit Analysis

We have a high degree of experience in the development of ALARP studies, including the use of Cost Benefit Analysis techniques, to enable the client to focus their expenditure where it has the greatest safety benefit and to provide assurance that all risks are as low as reasonably practicable.

Assessment of Safety Culture

Our team are able to offer advice and assistance in relation to the enhancement of safety culture within an organisation.

Development and Audit of Safety Management Systems

VECTRA is a leading provider of consultancy services to clients wishing to develop or improve the performance of their company Safety Management System. Our experience in this area includes development of safety management systems compliant with relevant legislation as well as the Health and Safety at Work Act.

Control and Instrumentation

We are familiar with the complete spectrum of C&I from hardware based systems through industrial programmable electronic systems, to software based systems running on personal computers.

Audit, Review and Assessment

This service covers; demonstrating compliance with regulations (Health and Safety at Work Act, EC Regulations, Safety Case Regulations), manual handling audits, display screen equipment audits, workplace audits, usability evaluations, incident and root cause analysis, training and procedure reviews, identifying and producing improvement plans, evacuation, escape and rescue assessment.

Ergonomics Design Service

Our design service includes: workplace design, job assessment and re-design, equipment interface design, human-computer interface, control and alarm system design, display screen equipment, control room design, procedure and documentation design.

Maintenance Strategy Planning

Vectra has developed an effective approach to the development of maintenance strategies, based on RAM and RCM techniques and methods to allow effective decisions to be made on the timing and extent of any maintenance to be carried out potentially generating significant cost savings in terms of man-hours, spares and consumables and increasing the availability of the system.

Vectra Group Limited provides a customised service to meet the needs of each project