ENGINEERING
EDUCATION
AUSTRALIA

RELEVANT / FLEXIBLE / TRUSTED

ENGINEERING DUE DILIGENCE

Course Duration: Two Days

Target audience

Company directors, senior executives and engineers, project directors as well as risk and compliance staff. Corporate legal counsel also regularly attend. This workshop is not sector-specific.

Course overview

This workshop provides the tools to implement due diligence processes as part of good governance. It ensures that risk equity and financial efficiency are seen to be achieved. It particularly enables legal counsel to support the recommendations of engineers to the CEO and Board, and the Minister and Cabinet.

The skills and knowledge to implement a reliable, diligent and defensible approach to address critical risks are covered. Also provided are the tools to enable senior decision makers, taxpayers and shareholders to understand required expenditure.

Course benefits

Understanding the difference between risk management and due diligence. Participants are presented the opportunity to learn how to use appropriate tools to educate and influence others, to find out about the requirements of work health and safety legislation and gain practical knowledge on how to demonstrate project due diligence. It has proved particularly beneficial for organisations trying to move away from strict reliance on the Risk Management Standard.

Course topics

- Social and historical sources and legal manifestation of due diligence in common law
- The manifestation and current scope of due diligence in Australian and New Zealand statute law
- The different risk management paradigms that currently exist
- Liability, that is, how the courts consider the management of risk, post-event
- Application of the due diligence concept in engineering (including in aviation, marine pilotage, power transmission, rail, mining, road tunnels and many others)
- How to demonstrate safety due diligence consistent with the model WHS legislation
- How to demonstrate project due diligence

Learning outcomes

- Understand the difference between risk management and due diligence
- Understand the difference between engineered and legal due diligence
- How to align the laws of man with the laws of nature for the management of safety
- Understand the logical limitations of the Risk Management Standard (ISO 31000)
- Determine what risk management technique(s) can be used when establishing due diligence
- Why the use of risk targets (i.e. tolerable or acceptable risk) is indefensible in court, post-event
- Understand why the exclusive use of risk matrices for decision making is indefensible for high consequence, low likelihood events
- How to make lawyers useful to engineers for the management of safety and project risk

Learning method

Throughout the course, learners will be challenged through a series of learning activities that apply theory to real work situations. These activities, along with course tools and templates, support the transfer of learning to the workplace. Activities may include but are not limited to work simulations, group projects, problem solving, case studies, peer-to-peer learning and facilitated discussions.

Take home tools

Copy of the 11th edition of the R2A Text: *Engineering Due Diligence*. ISBN 978-0-9875016-2-2. Colour, A4, 304 pages.