

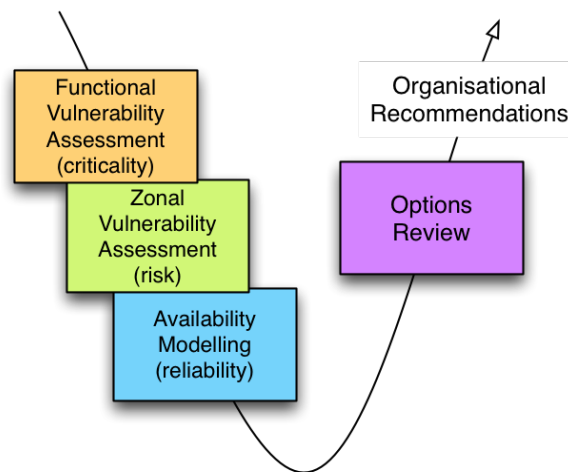
# Availability Profiling

A one-day workshop for management

*Make your system the best it can be – at best cost*

The workshop demonstrates how to combine criticality, risk and reliability analyses to optimise the effectiveness of the whole system with a top-down approach that is readily understood by primary decision makers.

The concept has been used successfully in many industry sectors, including power, IT, water, coal and banking.



**Top down approach to required depth**

- Focus attention on credible critical issues
- Identify critical external threats and key vulnerabilities that impose constraints on overall facility availability
- Address common mode failures – in context
- Align analysis with organisational values and goals
- Apply and record a transparent process – easy to audit and present

**BRISBANE** | Tuesday 13 April 2010, 8.30am – 4.30pm

**PERTH** | Tuesday 10 August 2010, 8.30am – 4.30pm

**Fee** | \$595 per person, includes Risk & Reliability – An Introductory Text (revised 7th edition), and electronic copies of presentations and example analyses in Excel® spreadsheets.

**Registration** | [training@r2a.com.au](mailto:training@r2a.com.au) | F +61 3 9670 6360 | T +61 3 8631 3400

**Workshop Leaders** | [Richard Robinson BE BA FIEAust](#) | Director R2A  
| [Michael Hall MS BE](#) | Associate R2A

# AVAILABILITY PROFILING

## Briefing Outline

*Make your system the best it can be – at the best cost*

A one-day workshop for management

### Objective

The objective of the workshop is to describe and train participants to use a process, (using spreadsheet documentation) which persuasively explains to senior decision makers the criticality, risk and reliability of plant and equipment for which the workshop participant is responsible.

### The Issues

Senior decision makers and managers are always seeking improvements to plant efficiency and productivity. Staff are encouraged to present them. But the value of the proposed upgrades is not always transparently presented in a way that senior staff can readily understand and so determine the best course of action. The sorts of questions which are asked of R2A include:

- We know that there are offsite issues that can seriously affect our product delivery processes. We do not have direct control over these offsite resources but we have not devised a way getting those responsible to understand our concerns in a way that motivates action. Can you help?
- Our engineers have recommended new plant upgrades. We recognise that their arguments are based on good engineering practice but we can't see a robust connection to future profitability. Can you help?
- Can you include offsite threats in a meaningful way in our overall plant availability model?
- We have had reliability studies completed on our plant. But there are some credible, critical issues that are considered to be so unlikely that they don't seem to rate any attention. But we know that if one happens, all hell will break loose. How do we demonstrate the importance of these to the board in a constructive way?
- We have spent a great deal of time and effort on reliability studies. But we don't feel they are contextually sound and have no process to test this. Is there a way this can be addressed?

### Worked Example and Case Studies

The workshop will make extensive use of a spreadsheet based worked example which will be provided electronically to participants. Actual case studies will be used where possible (this remains subject to continuing approval in writing from relevant R2A clients).

### Experience

This process has been completed for coal mines, water treatment plants upgrade options analysis, freeway tolling systems, boiler and power station upgrade options analysis, water authority supply networks, bank and broker computer centres, network black start requirements amongst others.