



## Fracture Control

### Course Outline:

The aim of this course is to provide a theoretical background for fracture control, discuss the purpose of a fracture control plan and identify requirements to write a fracture control plan

### Learning Outcomes:

At completion of this course the attendee can expect to:

- Understand the common modes of failure for pipelines
- Be able to list a few options how failure may occur
- Be able to list the differences between ductile and brittle fracture
- Be able to list the factors which affect ductile and brittle fracture
- Understand how strength of a material is determined
- Understand how toughness is determined
- Understand how hardness is determined
- Understand what happens to the defects during a hydrostatic strength test
- Be able to give an overview of when a fracture control plan is required and list the objectives of the fracture control plan
- Be able to list what is required in a fracture control plan
- Have received an overview of the equations and what they mean including limitations used in assessing fracture control risks
- Have been given an overview of the applications of the fracture control plan

### Intended audience:

Engineers and Pipeline Design Personnel working in the oil and gas industry



## Course Content/Session Titles:

Topic 1 – Failure Modes

Topic 2 – Concepts

Topic 3 – Testing Methods

Topic 4 - Purpose of a Fracture Control Plan

Topic 5 – Writing a Fracture Control Plan

Workshop – Examples of extracts of Fracture Control Plans are given. The attendees are invited to discuss in groups what the good points and the bad points of the examples are. The trainer will give guidance and discuss the pro's and cons of the examples given.

<b>Number of participants:</b>	maximum 12 (in public schedule)
<b>Duration:</b>	1 day
<b>More info:</b>	check <a href="http://www.piped.com.au">www.piped.com.au</a> for delivery dates on the public schedule in several capital cities or to register online
<b>Enquiries:</b>	contact course coordinator Ivonne Kuypers at <a href="mailto:Ivonne.kuypers@piped.com.au">Ivonne.kuypers@piped.com.au</a> Phone: 07-3377 4131
<b>Cost:</b>	\$890 excl GST (\$979,- incl GST) per person on public schedule, please contact course coordinator if you want a quote on in-house course delivery



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