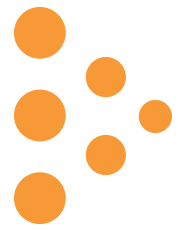


# High Pressure Testing Competency Training

## Fact Sheet



### Hydrostatic High Pressure Hazard

Failures during high-pressure hydrostatic testing may have significant consequences in terms of loss including death,



injury, asset damage and lost productivity. To minimize these consequences techniques and processes must be determined that mitigate the risks associated with hydrostatic testing. To this end a joint industry program was established to assess hazards common throughout this high-pressure hydrostatic testing process. One outcome of the study was an increased awareness of the need for in-depth training of high-pressure test technicians.

In cooperation with consortium partners Juler Group has completed comprehensive hazard assessments on seven high-pressure hydrostatic test platforms. Test pressures of these platforms range from 500 psi to 65,000 psi for the proof testing of a variety of drilling and exploration products including isolation and gate valves, piston pumps, hydraulic fracturing pumps, and piping products.

These hazard assessments were completed on small single fixture single product high-pressure test cells to mid-size multi-fixture single product test string cells to large multi-part sub-system enclosures. They include indoor, outdoor and mobile high-pressure test units.

Following the analysis of the hazard assessments a secondary investigation into the origination of specific hazards was performed and captured through extensive high definition filming of each step and hazard in the process. This process has enabled Juler Group to develop a training platform with improved interactivity and the addition of critical skill developing elements such as Situational Awareness and Fog-of-War challenges.

*Situational Awareness skills sharpen sensory perception, powers of observation and the ability to pick up anomalies in the environment.*

*Fog of War training uses mock-up simulations to test tactical response to rapidly changing and often dangerous conditions.*

**High pressure test technicians can now receive in-depth and challenging training that builds their competency in identifying high-pressure hazards, and their expertise in employing effective hazard controls.**

At the completion of the competency training program technicians will be able to:

- Understand the hazard assessment process
- Understand the Job Safety Analysis document
- Understand hazard control techniques before testing
- Identify warning signs preceding catastrophic failure
- Employ hazard control tactics during failure
- Perform high-pressure hydrostatic testing safely
- Minimize loss while protecting people and property

### Competency Training Delivery

Juler Group has developed a comprehensive hydrostatic high-pressure test technician competency-training program model that may benefit your high pressure test technicians. Delivering the training includes:

- Live in-class Instruction with Hands-on Workshops
- Practical Skills Evaluation
- Situational and Fog-of-War Evaluations
- On-the-Job Mentoring and Training
- Computer based Training

*For additional information, please contact:*

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