



PSR

PERFORMANCE | SAFETY | RELIABILITY

PSR INTERACTIVE



EQUIPMENT 05 - PIPEWORK

This program is designed to give your production personnel the knowledge, skills and focus to maximize the performance, safety and reliability of your piping, valves & fittings, covering in detail topics such as:

- design
- materials of construction
- selection criteria
- operating and maintenance problems
- welding and testing
- hot tapping

CONTENT	DESCRIPTION
Introduction	A brief introduction designed to prepare trainees for the modules that follow
Module 01 - Reliability	Piping cost, risks and consequences of leaks and failures, common failure mechanisms and requirements for routine inspection
Module 02 - Piping	Design and operation - standards, sizes, materials, individual piping supports, structural supports, expansion loops, insulation, hazards of asbestos, heat tracing, utility connections, hoses, line identification and steam mains
Module 03 - Valves	Design and operation - valve selection criteria, gate valves, globe valves, check valves, butterfly valves, plug valves, ball valves, specialty valves, valve operators and valve operation
Module 04 - Fittings	Common fittings - couplings, elbows and returns, bends, miters, branches, reinforced branches, line terminations, unions, reducers, thermowells, strainers and filters, flame arrestors, expansion joints and expansion bellows Piping joints - bolts, gaskets, flanges, flange-to-pipe attachment, blinds, flange assembly and operator checks

PROGRAM INFO

CATEGORY:
Equipment

MODULES:
5

PROGRAM DURATION:
225-300 mins (approx)

As with all our programs, the content is self-paced. Users are able to validate their understanding of the material through embedded interactive quizzes

Our programs are based on internationally recognized best practices and are designed to enable your production personnel to make a personal contribution to maximizing your profits and minimizing your losses

For further details of the style and methodology of our training programs, please refer to our website, where you can watch a demo video and apply for a free trial:

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CONTENT	DESCRIPTION
Module 05 - Welding	<p>Welding processes - arc, resistance, gas</p> <p>Types of welds - butt, fillet, plug, slot, spot, flange, surfacing</p> <p>Weld defects - porosity, incomplete penetration, inclusion, lack of fusion, cracks, undercut, burn-through and overlap</p> <p>Weld testing - hydrotesting, non-destructive and destructive methods</p>
Test	<p>Trainees answer a random selection of questions to demonstrate understanding of the content covered throughout the modules</p>