multisoft
Systems

Design of Hydrogen Piping and Pipelines Training

COURSE CONTENT

GET IN TOUCH

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About Multisoft

Train yourself with the best and develop valuable in-demand skills with Multisoft Systems. A leading certification training provider, Multisoft collaborates with top technologies to bring world-class one-on-one and certification trainings. With the goal to empower professionals and business across the globe, we offer more than 1500 training courses, which are delivered by Multisoft's global subject matter experts. We offer tailored corporate training; project Based Training, comprehensive learning solution with lifetime e-learning access, after training support and globally recognized training certificates.

About Course

The Design of Hydrogen Piping and Pipelines training offered by Multisoft Systems is a specialized course aimed at equipping engineers, designers, and project managers with advanced knowledge and skills for handling hydrogen fuel systems.

Module 1: Introduction to Hydrogen Energy

- ✓ Overview of hydrogen energy applications
- ✓ Benefits and challenges of hydrogen as a fuel

Module 2: Properties of Hydrogen

- ✓ Physical and chemical properties
- ✓ Behavior of hydrogen in enclosed spaces

Module 3: Standards and Regulations

- ✓ Overview of relevant ASME, API, and ISO standards
- ✓ Regulatory requirements for hydrogen systems

Module 4: Design Principles for Hydrogen Systems

- ✓ Material selection for hydrogen service
- ✓ Design considerations for high-pressure environments

Module 5: Piping System Components

- ✓ Valves, fittings, and joints for hydrogen service
- ✓ Leak detection and prevention technologies

Module 6: Pipeline Design and Construction

- ✓ Route selection and land issues
- ✓ Construction methods and material considerations

Module 7: Safety and Risk Management

- ✓ Hazard identification and risk assessment
- ✓ Safety management systems for hydrogen facilities

Module 8: Inspection, Maintenance, and Troubleshooting

- ✓ Routine inspection techniques and intervals
- ✓ Maintenance strategies and troubleshooting common issues

Module 9: Case Studies and Real-World Applications

- ✓ Discussion of real-world incidents and lessons learned
- ✓ Analysis of existing hydrogen pipeline infrastructures