API 653 Tank Training

COURSE CONTENT

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 API 653 Tank Inspection, Repair, Alteration, and Reconstruction Training by Multisoft Systems is a comprehensive course designed for engineers, inspectors, and technicians involved in the maintenance of storage tanks. This training delves into the critical aspects of API 653 standards, which are pivotal for ensuring the safety and integrity of existing storage tanks.

Module 1: Introduction to API 653

- ✓ Overview of API standards and the importance of API 653
- ✓ Scope of API 653 standards
- ✓ Definitions and terminology

Module 2: Tank Design Considerations

- ✓ Review of tank design methodology per API 650
- ✓ Material considerations and limitations
- ✓ Corrosion and minimum thickness evaluation

Module 3: Tank Inspection Practices

- ✓ Types of inspections (routine, external, internal, and ultrasonic testing)
- ✓ Inspection schedules and planning
- ✓ Safety considerations during inspections

Module 4: Common Tank Defects and Degradation

- ✓ Identification of common tank defects (corrosion, settlement, bulging)
- ✓ Degradation mechanisms and their impact on tank integrity

Module 5: Tank Repair Methods

- ✓ API 653 repair criteria and techniques
- ✓ Welding and examination requirements
- ✓ Temporary and permanent repairs

Module 6: Tank Alterations and Reconstruction

- ✓ Requirements for tank alterations and reconstruction
- ✓ Impact of alterations on original design
- ✓ Documentation and certification requirements

Module 7: Examination and Testing

- ✓ Non-destructive examination techniques
- ✓ Hydrostatic testing procedures and acceptance criteria
- ✓ Use of drones and robotics in tank inspections

Module 8: Documentation and Record Keeping

- ✓ Importance of documentation in compliance with API 653
- ✓ Types of records to maintain
- ✓ Legal and regulatory considerations

Module 9: Case Studies and Real-world Applications

- ✓ Review of case studies highlighting inspection, repair, and alteration scenarios
- ✓ Group discussions on problem-solving based on real-world incidents

Module 10: Examination Preparation

- ✓ Review of key concepts and standards
- ✓ Sample questions and discussion
- ✓ Tips for passing the API 653 certification exam