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# training programs

# IRIS (Internal Rotary Inspection System)

The training duration: 2 days

***INTRODUCTION :*** *The IRIS (Internal Rotary Inspection System) course typically covers the use of ultrasonic testing for the internal inspection of pipes and tubes. This is a common technique in industries like power generation, petrochemicals, and refineries. Here's a typical outline of an IRIS training course:*

*IRIS Course Content*

***1. Introduction to IRIS Technology***

*Overview of Non-Destructive Testing (NDT) methods*

*Introduction to Ultrasonic Testing (UT) principles*

*Understanding the basics of the Internal Rotary Inspection System (IRIS)*

*Key applications and industries using IRIS*

***2. Principles of IRIS Operation***

*How IRIS works: principles of ultrasonic pulse-echo techniques*

*Understanding tube and pipe inspection*

*Inspection of various materials (carbon steel, stainless steel, etc.)*

*Detecting defects such as corrosion, wall thinning, pitting, and cracks*

***3. Equipment and Setup***

*IRIS probe types and configurations*

*IRIS system components: probe, rotator, and electronics*

*Proper setup and calibration of the IRIS equipment*

*Understanding the importance of couplants in IRIS*

***4. Inspection Techniques***

*Practical aspects of performing IRIS inspections*

*Optimizing inspection parameters (frequency, speed, etc.)*

*Scanning techniques for tubes and pipes*

*Challenges in inspecting small and large diameter tubes*

*Common limitations and troubleshooting during inspections*

***5. Data Acquisition and Interpretation***

*Collecting and processing IRIS data*

*Interpreting B-Scans, C-Scans, and D-Scans*

*Identifying and classifying defects from IRIS signals*

*Accuracy and reliability of measurements (wall thickness, corrosion, etc.)*

***6. Standards and Codes***

*Relevant standards and codes governing IRIS inspections (API, ASME, ASTM, etc.)*

*Compliance with industry-specific inspection requirements*

***7. Case Studies and Practical Applications***

*Real-world examples of IRIS in action*

*Case studies highlighting the use of IRIS in various industries*

*Problem-solving scenarios*

***8. Practical Training Session***

*Hands-on training with IRIS equipment*

*Conducting inspections on sample tubes/pipes*

*Data analysis and report generation*

*Assessment of student performance*

***9. Health, Safety, and Environmental Considerations***

*Safe operation of IRIS equipment*

*Proper handling of hazardous environments (e.g., heat, chemicals)*

***10. Examination and Certification***

*Written and practical exam on IRIS theory and application*

*Certification process based on industry-recognized standards (e.g., ASNT)*