



Asset Integrity Management

Maximize asset value and returns while safeguarding people, equipment and environment through best-in-class Asset Integrity Management (AIM).

The purpose of Asset Integrity Management (AIM) is to effectively operate and maintain assets, ensuring proper performance and to maximize value, profitability and returns while safeguarding personnel, equipment, and the environment. An effective Asset Integrity Management program incorporates all stages of the asset's lifecycle from design, through construction and commissioning, to operations, maintenance and modifications, and decommissioning. It integrates all aspects and disciplines that directly and indirectly impact on asset integrity or performance.

OUR APPROACH

No two projects are the same! That is why our AIM model provides a flexible approach to tailor full value-adding service packages specific to unique customer needs and individual project requirements.

Our in-house AIM model integrates our core strengths and builds a bridge between the process safety and reliability consulting expertise of TÜV Rheinland Risktec and the testing, inspection and certification expertise of the TÜV Rheinland Group. This results in a unique combination of consulting and inspection services which can be broadly sub-divided into five levels.

1. MANAGEMENT SYSTEM AND SOFTWARE CONSULTING
2. DATA ANALYSIS AND TECHNICAL CONSULTING
3. DATA COLLECTION
4. INDEPENDENT REVIEW AND VERIFICATION
5. AIM TRAINING

Asset Integrity	Management System & Software Consulting	AIM system and strategy development and implementation			AIM Training and Independent Reviews	
		AIM software selection & implementation support	Data management	Auditing and certification		
	Data Analysis & Technical Consulting	Inspection planning and RBI consulting		Maintenance optimization and RCM		
		Integrity assessment	Risk, process safety & security assessment	Independent verification		
	Data Collection (testing, inspection)	Inspection of plants and components		Condition monitoring		
		Materials testing and Non-destructive testing (NDT)				



ASSET INTEGRITY STATEMENT

The purpose of Asset Integrity Management is to help maintain an asset in fit-for-service condition while extending its remaining lifetime in a reliable, safe, and cost-effective way. Moreover, AIM enables organizations to assert - with confidence and based on documented evidence - that their assets are safe and reliable.

TÜV Rheinland has a large number of experts, specialists and engineering support in all areas of AIM, including process safety, risk analysis, mechanical integrity, as well as inspection and maintenance to help you be confident in your assets.

Our experts have in-depth knowledge of the oil, gas and petrochemical industry. We provide AIM solutions that clients need to increase productivity while meeting safety and environmental requirements.

ASSET INTEGRITY MANAGEMENT KEY SERVICES INCLUDE:

- AIM system and strategy development
- Risk-based inspection (RBI) and RBI consulting
- Reliability-centered maintenance (RCM)
- Reliability, availability and maintainability (RAM) modelling
- Fitness for service
- Corrosion control
- Failure analysis
- HAZID and HAZOP
- Risk assessment (qualitative and quantitative)
- Computational engineering
- Technical inspections
- Condition monitoring
- Non-destructive testing (NDT)
- Inspection optimization strategy consulting
- AIM training

OUR EXPERIENCE - YOUR BENEFIT

- Improvement of plant integrity, safety and reliability
- Greater plant availability
- Cost savings by eliminating ineffective inspections / extending inspection intervals where appropriate

ABOUT TÜV RHEINLAND

Founded more than 140 years ago, TÜV Rheinland is a global leader in independent inspection services, ensuring quality and safety for people, the environment and technology in nearly all aspects of life.

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