



Risk-Based
Inspection
excellence



In order to compete in a dynamic market environment on a sustained basis, organizations must avoid unplanned shutdowns. However, it is also important for companies to ensure that their equipment is safe, reliable and do not lead to any threats to the surrounding environment. The requisite for tightened regulations is aimed at delivering an improved risk management ecosystem, thereby, protecting the environment and the citizens from any major industrial hazards.

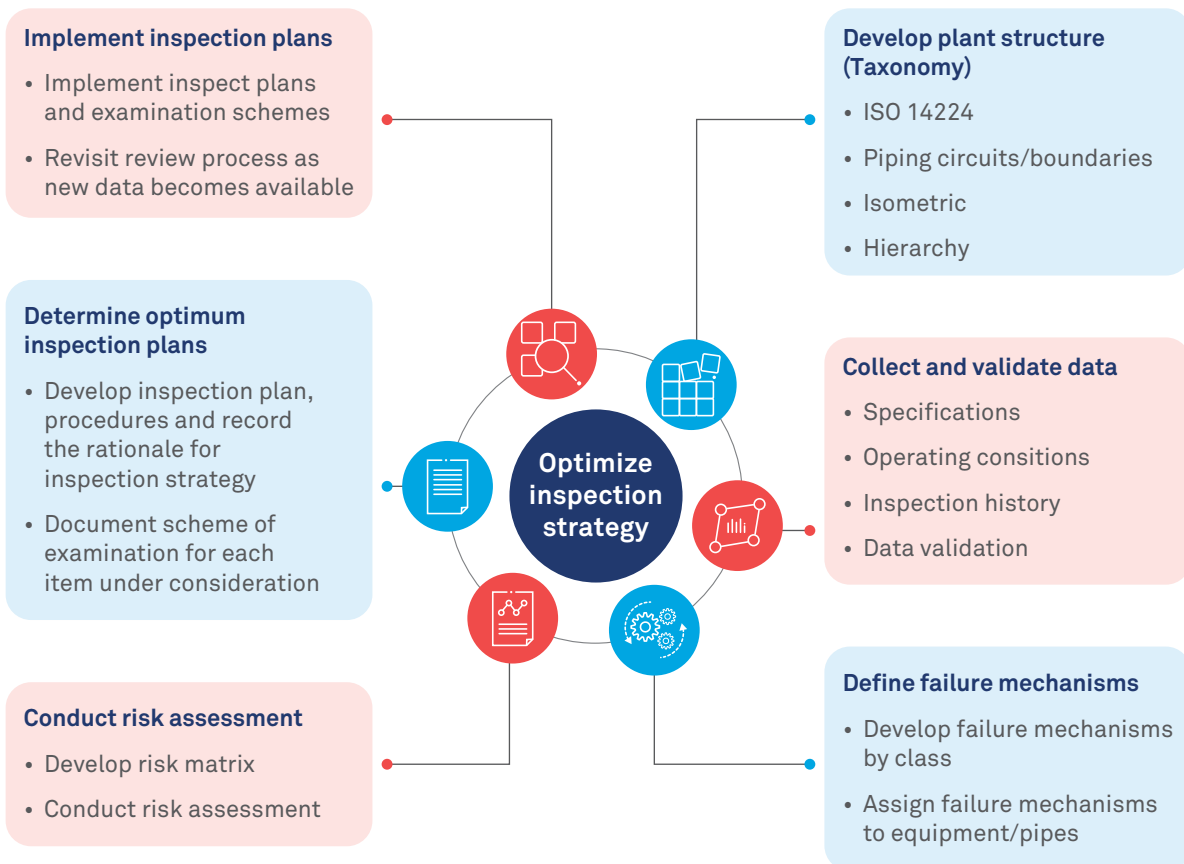
Solution

Wipro's Risk-Based Inspection (RBI) methodology helps companies to clearly identify, assess, map and mitigate any risks that can compromise equipment integrity.

The methodology focuses on addressing risks that can be controlled through proper inspections and analysis. During an implementation, engineers design inspection strategies (what, when, how to inspect) that most efficiently match forecasted or observed degradation mechanisms.

One outcome is the development of a database that includes equipment design, process features, damage mechanisms and inspection strategies. This database can be uploaded to a Computerized Maintenance Management System (CMMS).

Wipro's RBI implementation methodology



Wipro's methodology is compliant with API 580 risk based inspection

Benefits:

- Regulatory compliance
- Validated equipment data
- Recognition of equipment that may pose potential risk to safety, environment and business
- Team ownership of risk assessment and inspection strategies
- Reduced inspection cost through specification of appropriate inspection techniques and extension of inspection intervals wherever applicable
- Reduced likelihood of loss of containment
- Improved reliability and plant availability
- Optimized shutdown scope of work

Features:

- Compliance evaluation against standards and regulations
- Detailed risk-based inspection strategy for critical items
- Optimized business processes for managing inspection
- Practices and inspection tasks mapped into existing or new RBI systems
- Employees trained on Wipro's RBI methodology

**Identify, assess, map
and mitigate risks**





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