

## ROLE PROFILE

Phosphate BU/technical

<b>Job Title</b>	Lead RBI Engineer	<b>Reporting to</b>	Superintendent, Reliability Strategy
<b>Business Unit/Function</b>	Phosphate BU/technical	<b>Department</b>	Technical Reliability
<b>Direct Reports</b>		<b>Budget/Size</b>	
<b>Grade</b>	M11	<b>Job Family</b>	
		<b>Sub Family</b>	
<b>Position Type</b>		<b>Role Profile Number</b>	

### Job Purpose

To lead the development, implementation and review of Risk Based Inspection (RBI) strategy for all stationary equipment and piping. Also, to identify and implement best practices in RBI to ensure that the integrity of all static equipment are managed properly in accordance with company MSHEM and common industry standards, codes and government regulations so as to improve safety of plant and enhance continued operation of plant by minimizing unexpected failures.

### Key Accountabilities

Lead the development, implementation, and review of Risk-Based Inspection (RBI) strategy and procedure, ensuring they align with company standards and best practices

Develop and maintain databases and tracking systems to document RBI findings and inspection results, mainly in the company RBI software.

Provide direction and guidance to the RBI study team, including setting goals, assigning tasks, and monitoring progress to ensure timely completion of RBI analyses

Stay up-to-date with industry trends and technologies related to RBI and inspections, and incorporate new best practices and techniques into the plant's RBI and inspection programs

Collaborate with regulatory agencies and auditors to ensure the plant's RBI program meets all applicable safety and environmental regulations.

Using RBI risk assessment process, develop optimized inspection program (including selection of NDE methods and coverage) to ensure safe, reliable and efficient operation of the plant.

Monitor the quality of implementation of inspection in Oracle to confirm correct strategies are in place with right task lists, work center, frequency and schedule

Periodically review and update RBI program and inspection plans in Oracle, after turnarounds and inspections, also as recommended by RCA and MOC.

Collaborate with cross-functional teams to ensure that RBI strategies are integrated smoothly and effectively across the site

Develop and maintain strong relationships with key stakeholders, including plant management, reliability, inspection, maintenance and operations personnel, and other departments as needed

Prepare and report monthly RBI KPIs and progress status

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Ensure the RBI team is following up-to-date codes and standards. Also, ensure to update the RBI Software periodically.

Drive the Reliability Culture in the company through RBI presentations, banners, email flyers etc.

Comply with Maaden Safety, Security, Health, and Environment Management System (MSHEM)

### Minimum Qualifications, Experience and Competencies

#### Minimum Qualifications:

- B.Sc. degree in Mechanical/Materials/Metallurgical Engineering.
- Minimum of 8 years experience in Inspection and NDT fields, in mining, metals, chemical, or petrochemical industry.
- Minimum of 10 years hands-on experience in Risk-Based Inspection (RBI), with proven studies conducted as RBI leader or facilitator using RBI software, to analyze both equipment and piping loops.
- Experience in materials testing, failure analysis, corrosion, integrity operating windows (IOWs), welding defects, condition assessment and Fitness for Service (FFS)
- Certification in API 580 is a must.
- In-depth knowledge of API 581, API 571, as well as API 510, API 570, API 653.
- Thorough understanding of ASME BPV and Piping Codes.

#### Minimum Experience:

18 years

#### Ma'aden High-Performance Competencies:

- Close monitoring and follow up to RBI progress, recommendations completion and effectiveness.
- Proactively identifying, communicating and actioning common failure/root causes identified from RCAs and investigations to improve RBI and current inspection plans across the site.
- Auditing RBI to ensure quality of RBI process as well as recommendations.

#### Skills:

- Analytical, methodical, able to maintain disciplined schedules, and open minded.
- Strong leadership qualities and team building skills to drive and liaise with people at all levels.
- Strong oral and written communication skills in English, also should be Computer skilled.
- Strong facilitation skills.
- Able to provide training and coaching sessions.
- In-depth knowledge of different problem-solving techniques