AI Readiness Checklist for Midstream Operations

Use this checklist to quickly assess your organization's preparedness for adopting AI-driven solutions in pipeline operations.

1. Data Foundation

- **Centralized Data:** Is your critical pipeline data (e.g., inspection reports, asset records, compliance docs) stored in a centralized, accessible system rather than scattered spreadsheets or siloed tools?

- **Data Quality:** Have you recently audited your data for accuracy, completeness, and consistency?

- **Data Integration:** Can your systems easily share data between departments (engineering, integrity, compliance, operations)?

2. Digital Tools & Infrastructure

- **Modern Software:** Are you currently using digital tools (not just manual processes) for pipeline analysis, reporting, and compliance?

- **Cloud Readiness:** Is your IT infrastructure ready for cloud-based or hybrid AI solutions?

- **Cybersecurity:** Do you have protocols in place to secure sensitive operational data?

3. Use Case Identification

- **Quick Wins Identified:** Have you pinpointed areas where AI can deliver immediate value (e.g., anomaly detection, MAOP verification, corrosion monitoring)?

- **Pain Points Documented:** Do you know which manual tasks or bottlenecks could be streamlined with AI?

4. Team Engagement & Change Management

- **Stakeholder Buy-In:** Have you engaged leaders from engineering, integrity, compliance, and operations in AI discussions?

- **Training Plan:** Is there a plan for upskilling staff to work with AI-powered tools?

- **Cross-Functional Collaboration:** Are teams encouraged to share insights and best practices learned from AI pilots?

5. Governance & Trust

- **Data Governance:** Are there clear policies for data ownership, access, and quality control?

- **Transparency:** Do you have processes to validate and explain AI-generated insights to build user trust?

- **Regulatory Alignment:** Are you confident your AI initiatives support PHMSA and other regulatory requirements?

Scoring Your Readiness

- **12 –15 checked:** You're AI-ready! Start piloting advanced AI tools and automation.

- **8 –11 checked:** Good foundation—focus on filling a few key gaps for a successful rollout.

- **< 8 checked:** Start with data centralization and team engagement to build a solid AI foundation.

Download this checklist as a PDF or use it as a discussion guide with your team to identify next steps for your AI journey.

Want help assessing your AI readiness or exploring the right use cases? Schedule a Piper AI demo or contact us for a consultation.