

Safety & Field Readiness

Phase 1

Phase 1 Overview + Checklists

Phase 1 establishes the habits, standards, and mindset expected of every technician. Over the next 4 weeks, you'll focus on how work is approached & executed — from professionalism & ownership to how systems are observed, documented, & cared for

in real-world environments. This phase introduces compressed air concepts & the role these systems play in industrial operations, while reinforcing expectations around organization, site care, & representing the company on every job.

Week 1:

Safety & Professional Foundations

Establish technician foundations: apply core job-site practices, recognize & control equipment energy sources & begin understanding compressed air systems and their role in plant operations.

Day 1 Day 2 Day 3 Day 4 Day 5 Week 1 Review

Week 2:

Standards & Digital Tools

Build professionalism & consistency as a service technician. Learn customer-facing standards & how to use Ingersoll Rand digital tools for daily work, safety, documentation, training, and compliance.

Day 1 Day 2 Day 3 Day 4 Day 5 Week 2 Review

Week 3:

Hands-On Safety & System Understanding

Take the lead on job-site safety by performing SLAM & LOTO. Identify system components, understand oil-flooded/oil-free compressors, complete inspections & explain how components function in a system.

Day 1 Day 2 Day 3 Day 4 Day 5 Week 3 Review

Week 4:

Diagnostic Tools & Component Proficiency

Own safety responsibilities, using diagnostic tools (multimeters, SPM & thermal devices). Take accurate readings, collect samples, document findings & understand compressor components and system operation.

Day 1 Day 2 Day 3 Day 4 Day 5 Week 4 Review

Safety & Communication:

- Compressor energy sources & isolation
- SLAM purpose & application
- LOTO awareness
- Site cleanliness & service documentation
- Hydration strategy & heat awareness
- Customer follow-ups & quote escalation
- Coordination team communication
- Customer contact information access

Compressed Air Fundamentals:

- Industrial uses of compressed air
- Rotary compressors (oil-flooded/oil-free)
- Facility applications (oil-free/oil-flooded)
- Airflow & coolant flow (oil-flooded rotary)
- Dew point fundamentals
- Dryer types & achievable dew points
- Cooling methods (air vs water)
- Overheating causes & corrective actions
- Temperature, humidity & 20-degree rule
- Moisture removal & drain types

Components, Controls & Tools:

- Inlet valves
- MPCVs (function, failure, verification)
- TCv purpose & operating range
- Solenoids (NO/NC, coil voltage, testing)
- Oil stop valves & failure conditions
- Scavenge lines
- Consumables on oil-flooded compressors
- Electrical fundamentals (kW, mA, MΩ, ms)
- Multimeter measurements & checks
- PM Pro, Picklist, Tech Direct access
- Oil sampling & documentation
- LMS login & progress verification

Review Topics

Name: _____

Phase Start Date: _____

