

Mobius Institute ARP-A: Asset Reliability Practitioner — Reliability Advocate

Detailed Course Outline

Course Overview

Full Title	Asset Reliability Practitioner® [ARP-A]: Reliability Advocate
Level	Entry-level / foundational (first of three ARP levels: A → E → L)
Duration	16 hours minimum, typically delivered over 4 days (also offered as a compressed 3-day format)
Delivery formats	Public classroom, virtual instructor-led, on-site (private), and self-paced video/online

Audience	Senior management, maintenance & operations/production management, engineers, junior reliability engineers, condition monitoring professionals – anyone needing the "big picture" of reliability and performance improvement
Standards basis	Modeled on ISO 18436-2/-3 (training); certification modeled on ISO 18436-1 and accredited to ISO/IEC 17024
Framework used	Mobius Institute's Asset Reliability Transformation® (ART) implementation process

Certification Details

- **Exam:** 2 hours, 60 multiple-choice questions, 70% passing grade; can be taken online or in person on the final course day
- **Experience requirement:** 6 months of relevant work experience, verified by an independent person/supervisor
- **Certification validity:** 3 years
- **Governing body:** Mobius Institute Board of Certification™ (MIBoC)
- **Pre/post study:** Access to the online "Learning Zone" (pre-course videos) plus 4 months of post-

course access (extendable to 1 year)

Module-by-Module Outline

1. Getting Started

- What defines a "reliable plant"?
- Setting expectations and framing for the course

2. What Are the Benefits?

- The business case for reliability improvement
- Linking reliability to safety, cost, output, and competitiveness

3. Introduction to Implementation

- Process overview
- Comparison of reliability improvement strategies
- The Asset Reliability Transformation [ART] process
- Asset management and ISO 55000

4. Assessing the Value

- Why improve reliability
- Current performance and cost baseline
- Measuring progress (metrics/KPIs)

5. Selling Senior Management

- Building and presenting the business case
- Using pilot projects to build credibility

6. Strategy

- Planning, mission, and gaining support
- Establishing the implementation team
- Applying the ART process to build a roadmap

7. Plantwide Engagement

- Human error and psychology in reliability
- Leading culture change
- Gathering and using employee feedback
- The "brown-paper" engagement process

8. Getting Maintenance Under Control

- Breaking out of the reactive maintenance "cycle of doom"

9. Defect Elimination

- Design for reliability
- Value-driven procurement
- Reliability-focused transport/handling
- Acceptance testing of new equipment

10. Understanding Failure

- What failure actually is (failure modes, patterns, curves)

11. Asset Strategy

- Condition-Based Maintenance (CBM) vs. Run-to-Failure (RTF)
- Getting organized: Master Asset List, Bill of Materials
- Developing an asset strategy
- Analyzing reliability data
- Asset criticality ranking
- Preventive Maintenance Optimization (PMO)
- Reliability Centered Maintenance (RCM)
- Failure Modes, Effects (and Criticality) Analysis (FMEA/FMECA)
- Root Cause Failure Analysis (RCFA)

12. Work Management

- Work management flow
- Strategy-based work vs. work requests
- Establishing a priority system
- Processing requests
- Job planning, scheduling, and execution
- Commissioning

- Job closeout and feedback loops

13. Spares Management

- Spares databases
- Access control
- Selection process
- Storage/care of spares

14. Precision Work

- Precision installation, shaft alignment, balancing, and fastening
- Resonance elimination
- 5S in the workshop

15. Proactive Asset Care

- Precision lubrication
- The role of operations in asset care
- 5S and the visual workplace

16. Condition Monitoring (Technology Overview)

- Vibration analysis
- Ultrasound
- Electric motor diagnostic testing
- Oil analysis and wear particle analysis

- Infrared thermography
- Visual inspections
- Performance monitoring
- Non-destructive testing (NDT)

17. Continuous Improvement

- Key Performance Indicators (KPIs)
 - Reviewing and refining program strategy
 - Continual education and skills development
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Learning Outcomes

For managers launching or reviving a program:

- Understand how to define value, gain senior management buy-in, build a detailed strategy, and cultivate a reliability-focused culture
- See how the technical elements connect to overall business goals

For those new to reliability improvement:

- Grasp the full business case and "big picture" of reliability/performance improvement
- Gain working knowledge of reliability, maintenance, and CBM technologies, techniques, and terminology

- Be equipped to contribute meaningfully to an existing program
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Where ARP-A Fits in the Certification Pathway

Level	Focus	Typical Audience
ARP-A (Reliability Advocate)	Big-picture awareness, culture, and process	Anyone new to reliability; managers, cross-functional stakeholders
ARP-E (Reliability Engineer)	Technical depth – analysis, engineering the program	Reliability/maintenance engineers
ARP-L (Reliability Program Leader)	Leading and managing the initiative	Program leaders/managers

ARP-A is a recommended (not required) prerequisite
– ARP-E and ARP-L don't assume prior ARP-A

knowledge, but ARP-A makes the later material easier to absorb.

Source: Mobius Institute (mobiusinstitute.com), ARP-A course pages and certification guide, accessed July 2026.