



# ARP-L

## ARP [L] – Reliability Leader Asset Reliability Practitioner Training & Certification

The **Asset Reliability Practitioner [ARP] “Reliability Leader”** course is intended for those who have taken the lead role in a reliability and performance improvement program.

You may be responsible for the outcomes of a team of reliability personnel, maintenance personnel or contractors at one or multiple locations.

This course will provide in-depth knowledge of how to manage your team for success. Prior completion of the ARP [E] course is not compulsory, but highly recommended.

### Key Topics

- Overview of the implementation strategy
- Establishing the economic value that can be achieved
- Developing the strategy
- Understanding motivation, error and human psychology
- Assessing workplace culture and change management
- Leadership, buy-in and employee engagement
- Discipline, control and standards in maintenance and operations
- Caring for equipment and spares
- Acquiring for lowest life cycle costs and reliability
- Asset Health (CBM) monitoring and inspections
- Using analytics for decision making, review and improvement
- Optimizing the program and improving the strategy

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### Detailed Topic List

#### INTRODUCTION

- A successful implementation
- Why do some reliability programs fail to deliver?
- A summary of asset reliability transformation
- A summary of each stage in the implementation process & asset life-cycle
- How asset reliability relates to asset management and ISO 55000
- Understanding the key implementation phases

#### THE ECONOMICS OF RELIABILITY

- Introduction to financial fundamentals
- Financial measurements - return on investment, opportunity cost, net present value, the time value of money, discounted cash flow, internal rate of return, hurdle rate, discounted payback period and cost of capital
- Financial performance
- Economic value added

#### THE VALUE OF RELIABILITY

- What is the value of our “reliability improvement” initiative?
- Business Process Review
- Assessing the current state
- Constraints, Risks, Performance and opportunities
- Cost and Waste reduction
- Pilot projects to prove the benefits
- Setting targets & the business case
- Getting management support and approval

#### STRATEGY

- Introduction to the organisation chart
- Steering committee
- HR Support
- Implementation strategy & tactics
- The roll out
- Understanding failure
- What is an asset strategy?
- Typical outcomes
- RCM, FMEA & PMO
- Using data to drive decisions

#### THE PSYCHOLOGY OF RELIABILITY

- Why this is important
- How observant are we really?
- Do we make logical decisions?
- Cognitive biases
- How money affects us
- Influence and peer pressure
- Free and Cognitive dissonance
- Motivational factors

#### HUMAN ERROR AND PERFORMANCE MANAGEMENT

- How much of a problem is human error?
- Human performance
- Types of errors
- Error management
- Assessing the likelihood of human error

#### CULTURE CHANGE

- Why is it necessary to change the culture?
- Culture and people's personalities
- How does culture change?
- How to plan to change the culture

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### PEOPLE MANAGEMENT

- Leadership
- Awareness & buy-in
- Roles & Responsibilities (RACI)
- Skills and knowledge audit
- Training, certification & Skills
- Employee engagement in problem solving
- Co-operation between departments
- Communicating achievements

### CONTROL

- Co-operation between operations & maintenance
- Prioritizing - Pareto & bad actors
- Basic CMMS
- Basic documentation & master asset list
- Preventive maintenance optimisation
- Planning & scheduling
- Spares management
- Basic Care - lubrication and cleanliness
- Installing with precision
- Starting with basic condition monitoring
- 5S in the workshop

### ACQUIRE

- Lowest lifecycle costs
- Project management
- Design, procure and transport for reliability
- Acceptance testing

### DISCIPLINE

- Effective CMMS or EAM
- Documentation & standardisation
- Work management
- Spares and storeroom management

### CARE

- Lubrication management
- Maintaining equipment clean, cool, smooth and fastened correctly
- Caring for spares
- Operating with standard operating procedures and within integrity operating windows
- Operator asset care

### ANALYTICS

- Review financial performance & targets
- Program performance
- Measure & review KPI's
- Reliability & consequences
- Asset Health (CBM) monitoring and inspections
- Production performance monitoring
- Risk based inspections, NDT and hidden failure finding tasks
- AI, IIoT, machine learning and Industry 4.0

### END OF LIFE

- Root Cause Analysis techniques - 5Ys, FTA, Cause Tree, etc.
- Human considerations and RCA
- FRACAS and other RCA action management systems
- Dispose of assets

### OPTIMIZE

- Review the business process
- Improve the asset reliability strategy
- Improve the implementation strategy
- Further reliability & production improvements

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## Course Details

### Classroom Course:

Duration: 5 days

Classroom courses are held either as public courses or in-house.

Classroom students are given free access to the on-line course for 4 months from enrollment. A hard copy course manual is supplied at the course.

### Certification Exam:

The certification exam is held on the afternoon of the last day of the course.

### Distance Learning (on-line) Course:

The course is made up of videos of short studio recordings, totaling 48 hours, presented by Jason Tranter, the renowned Mobius CEO and founder. The content is very comprehensive and informative, with audio commentary and animated visual slides. A colour bound printed course manual is provided to follow the course and study offline. Students have four (4) months to complete the course and can extend access for an additional fee.

### Certification Exam:

The certification exam must be taken at a MIBoC Authorised Examination centre or with other students on the final day of a public classroom course. Mobius can assist with locations and available dates.

### ARP[L] Certification requires:

1. Prerequisite of a minimum of 48 month's verified work experience
2. Completing the whole course either in a classroom or on-line
3. Passing the exam with a minimum of 70%

### Exam:

The exam is 3 hours, closed-book with 100 multiple choice questions.

## Highly credentialed certification

The Asset Reliability Practitioner (ARP) certification scheme follows the independent format of the time-tested ISO certification programs, such as ISO 18436, and it follows the guidelines defined under ISO/IEC 17024 – the same process followed by the independently accredited Mobius Institute Board of Certification [MIBoC] certification scheme that has already certified tens of thousands of men and women from over 170 countries.



## ARP [L] Certification



All MIBoC certified reliability practitioners receive personalized logos with their certification number and name for their own professional use. Mobius Institute also maintains a listing of all certified analysts on their website and provides each person with a certification confirmation webpage.

For more information about Mobius Institute's accreditation, please visit [www.mobiusinstitute.com/certification](http://www.mobiusinstitute.com/certification).

Learn more about other Classroom or On-Line training options.

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Authorized Mobius Training Partner and MIBoC Exam Centre