



## There are just four requirements to become certified:

1

You must attend this Mobius Institute course, or any other recognized training course that covers the same topics.

2

You must achieve a 70% score, or better, on the three-hour, 100-question, multiple-choice exam.

3

You must have a minimum of 24 months of experience in the industry involved in some way with reliability improvement.

4

Your experience must be verified by an independent person.

## What will I be capable of once I complete the course?

The role of “Reliability Engineer” does not have a clear-cut definition. And different organizations utilize reliability engineers differently. However, after our course, you will have a solid understanding of a wide range of topics that will enable you to perform the tasks that are commonly performed by reliability engineers, and provide advice to people in the maintenance, engineering, and operations/ production departments.

### Reliability data analysis

You will have a good understanding of statistics, asset criticality ranking, Pareto analysis, Weibull analysis, and Crow-AMSAA. You will also learn about Reliability Block Diagrams (RBD) and the Monte Carlo method – and a few other topics. You will know whether you need to utilize those techniques: their benefits, the tools you will need, how you can utilize what you learned, etc.

With this information:

1. You will be able to work with other stakeholders to develop a thorough, robust criticality ranking. And with that, you can prioritize and justify a wide range of tasks

2. You will be able to extract data and perform Pareto analysis to identify your bad actors and thus prioritize your improvement activities.
3. You will understand Weibull analysis, Crow-AMSAA, reliability block diagrams, and Monte Carlo analysis so that, if you had the tools to perform that analysis, they would make perfect sense. Additional training would be required to master those techniques.

### Asset strategy development: FTA, RCM, PMO, FMECA

You must follow a structured process to ensure your asset strategy (maintenance plan) manages your risks and makes the best use of available resources. We spend a lot of time on these subjects so that you understand:

1. Why it is so important to develop a maintenance plan with a clear understanding of asset criticality, the function (and context) of the asset, and the failure modes.
2. How to avoid the common traps experienced with the use/implementation of these techniques.

### Compliance:

Training: modeled on 18436-2 and ISO 18436-3, but there is no ISO standard for reliability personnel certification.

## Duration

32 hours minimum: typically delivered over five days

## Format

Live public course

• On-site course

• Virtual online course

• Video distance learning online courses

Certification: according to ISO/IEC 17024 and modeled on ISO 18436-1

Training: ISO 18436-3

### Exam:

- Three hours
- 100 multiple-choice questions
- 70% passing grade
- Can be taken online or in-person at the course

### Certification requirements:

- Training course completed
- 24-months of work experience, verified by an independent person
- Pass the exam
- Valid for 3 years

