

# PRO-RELIABILITY SOLUTIONS

## Reliability Training Solutions

Quality cost effective training designed to increase individual and organisational productivity

### RELIABILITY FOCUS™

At Pro-Reliability Solutions we have set out to find ways to harness the power and potential of reliability to industry. Our mission is to support our clients to **reach their potential by embedding reliability as an intrinsic part of their corporate fabric and culture.**

To deliver and sustain this transformation we have developed a framework for achieving reliability success. This framework is called **Reliability Focus.**

The key benefits seen from implementing the elements of Reliability Focus are increased plant availability and personnel engagement, which subsequently releases hidden plant profit.

Other benefits include:

- **Improved safety performance**
- **Increased operational performance**
- **Increased maintenance effectiveness**
- **Improved employee engagement and motivation**



With Reliability Focus everyone has a part to play. It supports the building of a Reliability focused **culture.** For organizations to make a positive impact with asset management and reliability improvement, then all departments need to be involved. Just like safety.

This does not mean every department needs to have its own reliability specialist but each does need to have a level of awareness and understanding of how they influence the reliability of an asset and ultimately the performance of the plant and the overall business.

We are happy to discuss your reliability training and personnel development needs to support your reliability improvement and culture development journey.

**We offer training courses through on-site, public or remote delivery in the following subjects:**

- Introduction to Reliability Basics
- Reliability Mindset
- Reliability in Design
- Root Cause Analysis Introduction
- Root Cause Analysis Masterclass
- Failure Modes Effects and Criticality Analysis
- Reliability Centred Maintenance
- Work Management

# COURSE OUTLINES

Pro-Reliability Solutions are pleased to offer the following training courses. Courses are available for on-site, public or remote delivery as indicated.

## Reliability Elements

**Course** - Introduction to Reliability Basics

**Duration** - one(1) day

**Course Description** - This one day course works through the basics of Reliability and covers a range of topics including:

- Introduction to Reliability
- Lubrication Management
- Defect Elimination - Root Cause Analysis
- Threats and Vulnerabilities - Proactive Risk Management
- Design for Reliability
- Frontline Reliability Leadership
- Asset Strategy Optimization
- Condition Monitoring
- Work Management
- Reliability Maturity

**Recommended Attendees** - Reliability Managers, Reliability Engineers, Maintenance Managers, Maintenance Supervisors, Maintenance Technicians, Production Managers, Procurement Personnel, HR and IT.

On-Site



Public



Remote



2 x 3 hour sessions

## Reliability Leadership

**Course** - Reliability Mindset

**Duration** - three(3) days (with optional coaching days as follow up)

**Course Overview** - Reliability outcomes are strongly influenced by mindsets and capabilities of the individuals and teams within an organization. A mindset refers to the underlying patterns of thought, feelings, assumptions, values, priorities and opinions which shape a person's perception and motivation. The objective of this program is to recognize the need for management commitment and active leadership throughout the reliability journey and to ensure common values are shared across the organization. The program starts with a three(3) day event followed by optional coaching support in the workplace (not available for public run courses).

**Recommended Attendees** - Senior Leadership Team, Senior Managers, Asset Managers, Reliability Managers.

On-Site



Public



Remote

Not Available

On-site coaching option not available for public courses



## Reliability in Design

**Course** - Reliability in Design Workshop

**Duration** - one(1) day

**Course Overview** - This one day workshop will look at what reliability techniques need to be considered during the project phases from initiation to close-out. We cover the nine deliverables of a Reliability in Design (RiD) process. Reliability in Design (RiD) is a concept for ensuring all elements of lifecycle cost are considered during the design phase of the Project Gate Process. The decision to address reliability and life cycle cost is best made during the design phase of a project. When these decisions regarding reliability are made later during the life cycle, the return on investment decreases as plant problems occur. This in turn reduces plant availability and capacity. The concept is to ensure there is no waste during start up and that a smooth transition from Project to Production occurs. The RiD process will ensure increased asset performance with reduced operating and maintenance costs.

**Recommended Attendees** - Project Managers, Project Designers, Reliability Managers, Reliability Engineers, Commissioning Managers and Engineers, Procurement and Supply Chain.

On-Site



Public



Remote

By Request Only



## Defect Elimination (1)

**Course** - Root Cause Analysis Introduction

**Duration** - one(1) day

**Course Overview** - Root cause analysis is a key tool for eliminating defects and identifying solutions to prevent re-occurrence. This course will cover the basics of RCA investigations from 5 Whys to Cause and Effect Analysis. The course is aimed at all persons who will be participating in onsite RCA investigations, or those seeking to gain an insight into structured problem solving. Interactive exercises are carried out with all participants including a final group based exercise where attendees get to utilize the knowledge learned during the course. We will discuss the use of investigation trigger points, the roles of the team and facilitator, and eventually the solution identification to prevent future reoccurrence of the problem. Root Cause Analysis can be applied to any type of problem from production, maintenance, safety and environment, HR, IT etc..

**Recommended Attendees** - All staff members involved in incident investigation and problem-solving processes.

On-Site



Public



Remote



2 x 3 hour sessions



## Defect Elimination (2)

**Course** – Root Cause Analysis Masterclass

**Duration** – two(2) days (with optional coaching days as follow up)

**Course Overview** – The RCA Master Class course from PRS follows the principles of the Cause and Effect methodology but also incorporates a streamline approach utilizing the 5 Whys method of analysis. The course is aimed at all persons who will be involved in leading or facilitating onsite RCA investigations. Understanding the principles of cause and effect requires the participant to explore the investigation process in more detail and depth, which will support the participant when leading investigations and identifying solutions to prevent reoccurrence of problems and/or incidents. The training is interactive and incorporates exercises and demonstration of understanding, including a final group exercise where attendees get to utilize the knowledge learned during the course

**Recommended Attendees** – All staff members involved in leading / facilitating incident investigation and problem-solving processes.

On-Site



Public



On-site coaching option not available for public courses

Remote

Not Available



## Asset Strategy Optimization (1)

**Course** – FMECA (Failure Modes Effect and Criticality Analysis)

**Duration** – two(2) days

**Course Overview** - The objective of the course is to interactively teach participants how to conduct and facilitate their own asset/equipment FMECA's. The participants will explore the key elements Failure Modes Effects & Criticality Analysis and practice conducting their own analysis using the core facilitation skills and establishing FMECA facilitation ground rules. Many of the exercises will be performed in groups of 4 to 5. This course includes the following modules:

- Introduction to FMEA/FMECA
- Setting Up For FMECA
- The FMECA Process
- Functions
- Functional Failures
- Failure Modes and Causes
- Failure Severity and Effects
- Criticality Ranking
- Mitigating tasks
- Summary

**Recommended Attendees** – Reliability Managers, Reliability Engineers, Design Engineers, Maintenance Managers, Production Managers, Production Operators, Maintenance Technicians.

On-Site



Public



Remote



Shortened Version  
2 x 3 hour sessions



## Asset Strategy Optimization (2)

**Course** - Asset Strategy Optimization with RCM (Reliability Centred Maintenance)

**Duration** – two(2) days

**Course Description** - This two day course works through the elements of Asset Strategy optimisation, zero based maintenance budgets, resource optimization, spares optimization and is for anyone looking to improve the effectiveness of their existing maintenance strategies. It will consider the impact of both predictive and preventive maintenance plans on the overall business and show the comparison between your current and optimum strategy.

**Recommended Attendees** – Reliability Managers, Reliability Engineers, Design Engineers, Maintenance Managers, Production Managers, Production Operators, Maintenance Technicians.

On-Site



Public



Remote

Not Available



## Work Management

**Course** – Maintenance Planning and Scheduling for Reliability

**Duration** – three(3) day

**Course Description** – This course will identify the best practices and methods, the specific requirements and the systems that need to be in place (and in use) to get the most from planning and scheduling. Too much time, production and money can be lost if the preparation is not done well. Maintenance planning done correctly maximizes tool time, by ensuring jobs are ready (with all resources and information at-hand) so tradesmen walk from job to job uninterrupted, doing their work with 100% right-first-time quality. High quality planning leads to top quality performance.

**Recommended Attendees** – Reliability Managers, Reliability Engineers, Maintenance Managers, Maintenance Supervisors, Maintenance Technicians, Production Managers.

On-Site



Public



Remote

Not Available



*Pricing for all training course offerings and a schedule of all public courses held across the U.K. and Ireland are available upon request.*

***“It comes down to a simple choice really - get busy improving reliability or get busy fixing failures.”***

**Gary Tyne CMRP, CRL**  
*(Founder and Director, PRS)*

## CUSTOM RELIABILITY AND MAINTENANCE TRAINING

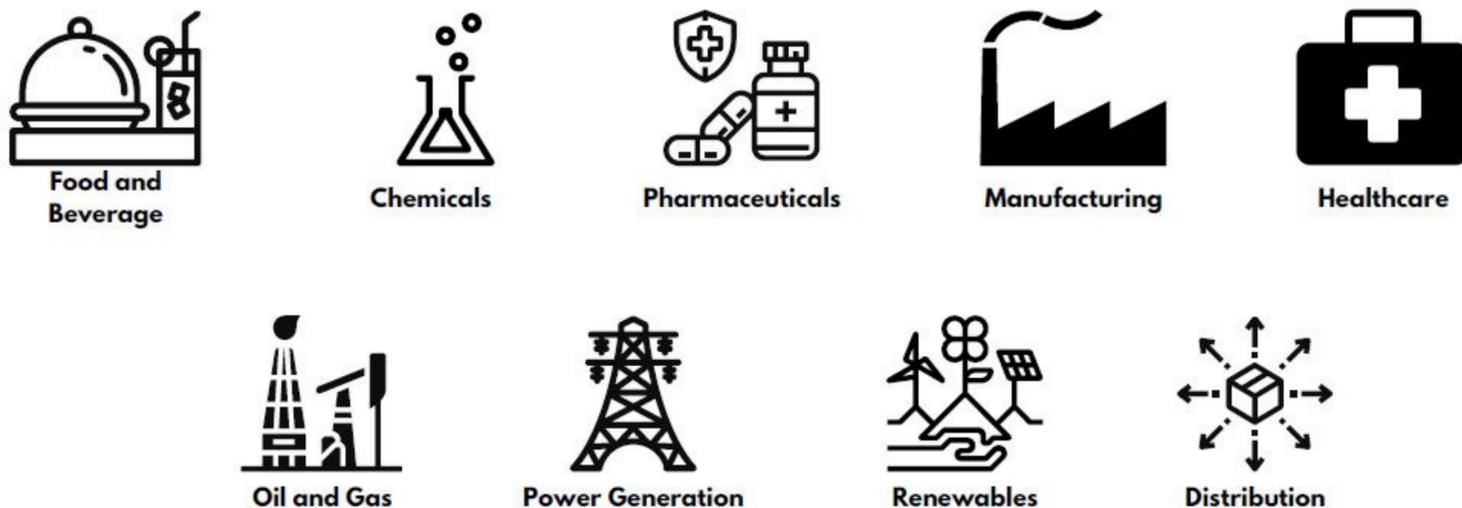
Pro-Reliability Solutions are available to custom develop training courses to meet the specifics of your personnel development needs. All of our standard training courses can be customized to incorporate topics, elements or subjects specific to your facility. In addition, and in association with our partners, we can also provide training in the following areas:



**“The trainers experience and enthusiasm for the subject along with real case studies made this course a pleasure to attend. I will be recommending this to my colleagues”**

## WHO WE WORK WITH

PRS works across a range of industry verticals in the U.K., Ireland, Europe and the Middle East. We work with business owners, facility operators and O.E.M's to help and support their businesses to achieve long term, sustainable reliability.



## CONTACT US

With offices in the U.K. and in Ireland we are here to support your reliability journey and would be happy to discuss your training needs and requirements at any time.



**Pro-Reliability Solutions Ltd.**  
**United Kingdom**  
3M Buckley Innovation Centre,  
Firth Street,  
Huddersfield,  
HD1 3BD  
T: +44 7568 533 336

**Pro-Reliability Solutions Ltd.**  
**Ireland**  
Clonminch Hi Technology Park,  
Tullamore,  
Co. Offaly,  
R35A2Y4  
T: +353 85 194 34 70

**E-Mail:** [info@pro-reliabilitysolutions.com](mailto:info@pro-reliabilitysolutions.com)  
**Web:** [www.pro-reliabilitysolutions.com](http://www.pro-reliabilitysolutions.com)