

PRO-RELIABILITY SOLUTIONS

We help you and your business achieve long term sustainable reliability

INTRODUCTION

Pro-Reliability Solutions Limited (PRS) help and support companies who are looking to improve the way they perform and deliver reliability and maintenance from an engineering and organizational perspective.

- How are your assets currently performing?
- Are you experiencing unplanned production outage events?
- Are you in a run to fail or reactive mode of operation?
- Are you managing incidents rather than proactively managing your risks?
- Is there a strong Reliability Culture in your business?
- Would your business benefit from a reliability maturity review?

*If you are an existing plant, a new facility or still in the design phase, Pro-Reliability Solutions can support your **team** and your **asset management program** to deliver optimum plant performance that will lead to direct results for the operation both in terms of cost and risk reduction.*

HIDDEN PROFIT

*Manufacturing organizations, and businesses that rely on systems of physical assets to achieve their business objective, are striving to be highly efficient, low cost producers and to maximize their return on investment. Unfortunately, many of them are not in control of their operations. They suffer from **instability** in their production systems due to:*

- Unplanned system or equipment outages and failures
- Being constantly surprised by utterly predictable events
- Run to fail or reactive modes of operation
- Ineffective equipment maintenance strategies and tasks
- Lack of a defined reliability culture and ways of working

*In other words they are **failing to meet their full potential**.*

*This failure to reach potential creates what we refer to as “**hidden profit**” within a business. This hidden profit is effectively the “cost” that a company suffers due to the cumulative effect that poor reliability has on their business. In the U.K. alone it is reported that poor reliability costs industry a staggering £180 billion per annum.*

Is poor reliability eating into your profits and preventing your business from reaching its potential?

STRONG RELIABILITY CULTURE

Imagine a work place culture where it is normal for your business to reach its potential. Where it is normal for everyone to be engaged in the process of continuously striving to improve reliability across the organization as part of every day life.

*We realize that it may not be your companies mission to achieve reliability excellence but more and more organizations are recognizing that developing a **Reliability Culture** remains an area of largely untapped potential with real value to offer.*

*In many cases reliability still remains in the hands of a few technical specialists. However, a growing number of companies are making significant efforts to enable a true **Reliability Culture** through out their entire organizations, something where reliability becomes part of every day life both formally and informally*

*The greatest benefit to be gained from having a really strong **Reliability Culture** is the relentless pursuit of hidden profit in all its forms and finding ways to convert it into real and tangible, bottom line **VALUE** for the business.*

*This value is in fact the **return on the investment** available as pay back for establishing your culture in the first place.*

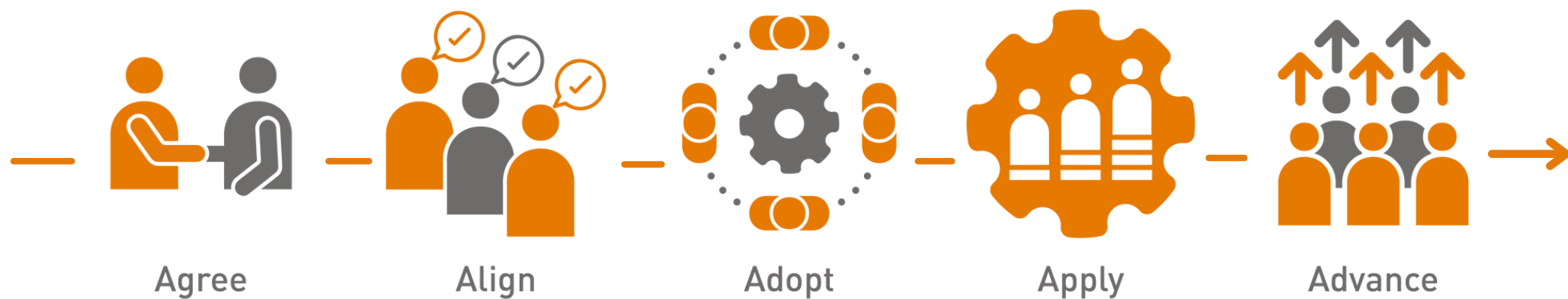


INTRODUCING A FRAMEWORK FOR SUCCESS

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 **ReliabilityFocus™**

RELIABILITY FOCUS™



Consisting of five fundamental elements, and multiple supporting modules, ReliabilityFocus™ provides a comprehensive framework for asset Reliability improvement and the development of a strong Reliability culture.

Offered as a single program, or as individual modules based on customer needs, ReliabilityFocus™ underpins all that we do at Pro-Reliability Solutions.

The key benefits seen from implementing the elements of ReliabilityFocus™ **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

Contact us today to discuss how ReliabilityFocus™ could reshape your Reliability journey.



RELIABILITY MATURITY



Reliability Maturity Assessment

The ReliabilityFocus **maturity assessment** is usually the first step for many customers on their Reliability journey. It clarifies where are you **now versus where you need to be** to unlock the true potential of your business.

The assessment, presented in questionnaire format and supported by a series of scored and weighted range statements, covers the main topics affecting reliability in industry today. It can be customized to suit the purpose of your own company's Reliability journey.

Facilitated by one of our expert Reliability Coaches, the assessment output will consist of a comprehensive report identifying the **'Gap to Potential'** and recommendations targeted for continuous improvement.

RELIABILITY SERVICES

PRS can provide you with an expert Reliability Facilitator for the service of your choice. Facilitation skills are sometimes the make or break part of a project. The facilitator plays an important role when conducting any form of workshop, they help pave the way for discussion in a group, they provide guidance and they provide direction.



Root Cause Analysis / Defect Elimination

Are you having repetitive failures, production losses, near misses, or accidents? Do you need to establish a defect elimination or loss management process, or require expert root cause analysis facilitation? PRS can help to establish your loss management program and can provide you with a facilitator, when required, to support your team and provide independent insight into your investigation. We will provide an RCA report and causal factors chart along with identified solutions to prevent reoccurrence of the issue.



Asset Criticality Analysis

Where do you start with your asset strategy improvement program? Which equipment or asset is critical to production, quality, environment and safety? Criticality Analysis is an important tool that will support further justification to determine RCM or FMECA activity and will ensure resources are being focused on the right areas. We can provide facilitation using the PRS Criticality Analysis ranking tool or we can utilize your method if required.



Asset Strategy Development and Optimisation

If you are considering the use of Reliability Centred Maintenance (RCM) to optimize your asset maintenance strategies then we can develop your equipment/facility strategy for you, using our suite of modelling software, or provide you with an experienced facilitator to guide you through the process. We can provide you with RCM software tools or if you prefer to use your own then we can utilize those. We would be happy to share case studies with you that show case our work in this area.



Vulnerability Analysis

Do you have a current risk register for your assets? Do you know where your biggest production risks lie within your facility? Are you proactively mitigating those threats and vulnerabilities in your plant that could cause unplanned outages? PRS can help you to proactively identify vulnerabilities in your production system / facilities / plant. Following a systematic approach and engaging a cross functional team, we will prepare a comprehensive production risk assessment and mitigation action plan for your facility.



Reliability in Design / RAMS Modelling

If you are purchasing new assets, designing a new system, or implementing modifications to existing facilities, are you considering the impact on overall reliability? Will the design deliver the capacity and availability required to meet your operations / production demand, and what are the expected lifecycle costs? What if you could model the performance of your asset based on how your plant is configured to determine production levels before it was built? What if you could understand the impact on changing shut-down intervals, differed maintenance or existing bottlenecks during the operational phase? With our software tools we can model the complexity of your asset and provide you with these answers and more.

TRAINING AND COACHING

ReliabilityFocus™ contains a number of training and coaching program designed to support your journey of reliability. Available individually or as part of a structured Reliability culture development program, our courses can be run in-house at your chosen location, or remotely online if required. Our courses and training programs include:

- Reliability Elements: Introduction to Reliability
- Reliability Leadership
- Reliability in Design
- Root Cause Analysis: Introduction
- Root Cause Analysis: Masterclass
- Failure Modes Effects and Criticality Analysis
- Asset Maintenance Strategy using RCM
- Work Management, Planning and Scheduling
- Proactive Threats and Vulnerabilities Management
- Condition Monitoring
- Lubrication Management
- Industry 4.0
- Electric Motor Management
- Reliability Maturity

We believe that Sustainability and Reliability go hand in hand, and that a reliable plant gives you the very best platform from which to achieve your sustainability goals. Whether you need Root Cause Analysis facilitation to get to the root causes of your sustainability challenges, or are looking to model the life cycle performance, maintenance strategies and costs of your assets when considering your environmental business drivers, PRS can support you.

In addition, and in association with our partners, PRS would be delighted to introduce you to our **Steam Energy Systems** and **Electric Motor Management** sustainability programs. Designed to improve reliability, reduce energy consumption, and reduce full lifecycle costs, while helping you to achieve your business goals, why not contact us today to discuss how our sustainability programs could benefit your operations.

Electric Motor Management

Did you know that electric motors consume approximately 50% of the global industrial energy demand, and that an electric motor will consume approximately 16 times its purchase price in energy every year?

- Are inefficient motors increasing your site energy consumption and operating costs?
- Are you in control of your electric motor performance, reliability and availability?
- Is your acceptance testing criteria robust enough to prevent defective, inefficient motors from entering your facility?
- Would you benefit from developing a baseline health assessment of all motors on site using our **ALL-TEST Pro Motor Genie** motor analyzer and assessment protocol?

Taking a comprehensive, hands-on approach, our program reduces the total cost of ownership, lowers energy consumption, increases reliability, optimizes overhauls and spares and transfers knowledge and skills to your onsite personnel.



Steam Energy Systems

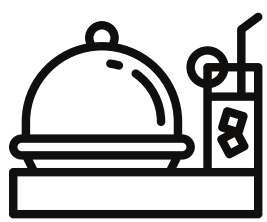
How is your Steam system performing? Do you need to reduce your steam energy costs and site carbon emissions? Do you want to stop the endless cycle of broken or passing steam traps? Could you benefit from an optimized, fit for purpose asset maintenance strategy for your steam systems?

Whether you are an existing facility, or still in the design phase, our Steam Energy Systems program offers an holistic view of entire steam systems and combining a unique **Venturi nozzle steam trap technology**, with advanced asset strategy and lifecycle cost modelling, we will help you to optimize your steam system design, improve reliability, reduce your steam energy footprint and life cycle costs.

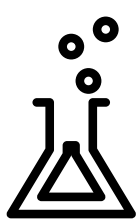


WHO WE WORK WITH

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



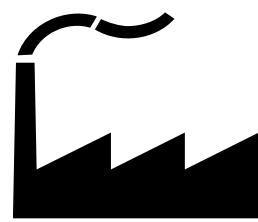
Food and Beverage



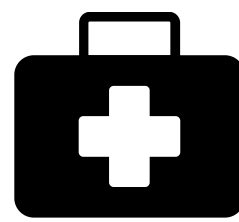
Chemicals



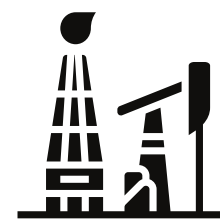
Pharmaceuticals



Manufacturing



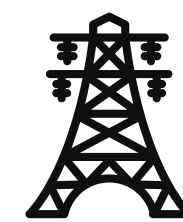
Healthcare



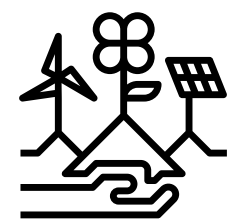
Oil and Gas



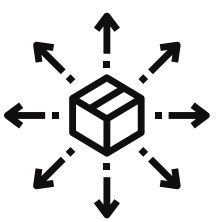
Mining



Power Generation



Renewables



Distribution

CONTACT US

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



Pro-Reliability Solutions Ltd.

United Kingdom

3M Buckley Innovation Centre,
Firth Street,
Huddersfield,
HD1 3BD
T: +44 1484 941068

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

Web: www.pro-reliabilitysolutions.com