



## Programme

# Maintenance Management Delivering Reliability in the Process Industries - Online Course 21 November 2024

## Target audience

Maintenance Management is a distinct and specialised engineering discipline often overlooked or taken for granted but is critical for the efficient and productive operation of any facility. This course is an introduction to maintenance approaches and theories which will equip the delegate to take a fresh look at the performance of the maintenance engineering department.

This may include:

- Senior Engineering Managers
- Departmental managers with maintenance responsibilities
- Engineers and Section Engineers charged with maintaining plant and equipment
- Engineering planners
- Engineering first line supervisors

## Why attend?

This course will begin with the fundamentals of maintenance and build from that point to look at a range of topics relevant to Maintenance Management (including maintenance theory) to support improving plant reliability and performance. The course will draw on specific case studies and industry specific experience.

Maintenance for reliability is about ensuring the plant operates when called upon. So, while not as critical for process safety, it is nevertheless important to the survival of a business to have reliable processes and equipment. Too often intuition and gut feel is used to come up with maintenance policies for items of plant. As was discovered by Nowlan and Heap in their seminal work on maintenance theory, intuition gets it wrong, leading to the introduction of tasks that actually reduce the reliability instead of increasing it. Without an understanding of failure patterns and maintenance theory, efforts to improve reliability can result in minimal benefit, or even worsening performance.

## Programme

<b>10:00</b>	Welcome and introductions
<b>10:15</b>	What is the objective?
<b>10:30</b>	Why do things break? - Maintenance Theory <ul style="list-style-type: none"> <li>• Patterns of Failure</li> <li>• Appropriate and inappropriate maintenance tasks</li> </ul>
<b>11:15</b>	Approaches to improving reliability – in introduction <ul style="list-style-type: none"> <li>• Reliability Centred Maintenance</li> <li>• Planned Maintenance Optimisation</li> <li>• Total Productive Maintenance Root Cause Analysis</li> </ul>
<b>12:00</b>	Definition and Control of tasks – ensuring tasks are done and done well
<b>12:30</b>	Lunch
<b>13:00</b>	Measuring Reliability <ul style="list-style-type: none"> <li>• KPIs &amp; Measures</li> <li>• OEE and the Six Major Losses</li> <li>• Addressing the 6 Major Losses</li> </ul>
<b>14:00</b>	Maintenance Planning & Control <ul style="list-style-type: none"> <li>• Managing work arising</li> <li>• Job priority</li> <li>• Planning approaches</li> </ul>
<b>15:00</b>	Down days and planned maintenance periods – what is their purpose? <ul style="list-style-type: none"> <li>• Patterns of Failure</li> <li>• Determining the frequency</li> <li>• Types of task to schedule</li> </ul>
<b>15:30</b>	Review
<b>16:00</b>	Close