

**When your EAM and Maintenance processes need sure improvement, this training course shows you how to do it successfully the Plant Wellness Way**

## **The Plant Wellness Way of Enterprise Asset Management and Maintenance Improvement**

**Use the new methodology for becoming outstandingly successful at Enterprise Asset Management, Industrial Plant Maintenance & Reliability Management**

Take this training course and you'll learn how to design and implement the best processes to deliver world class plant and equipment reliability and maximum production uptime in existing operations. You'll learn how to reengineer your asset life cycle and your business' procedures to quickly feed effective innovations, better work methods, and new productivity solutions into any industrial operation.

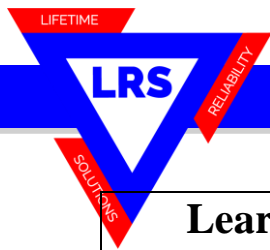
Over the two days of the course you'll see how to apply the Plant Wellness Way (PWW) methodology for asset management, maintenance and reliability improvement that works successfully for any industrial business, company or organisation. PWW universally applies to all areas of the engineering world (mechanical, electrical, instrumentation, process, operations, structural, management, organisations and people, etc.). You discover the simple ways to infused your operation with the PWW physical asset wellness philosophy and best practices that bring world class industrial plant and equipment performance.

All top, senior, and middle managers and engineers responsible for operating asset performance who want sure solutions for optimal plant and equipment reliability will gain great strategic advantages for their company if they use the Plant Wellness Way. The PWW knowledge gained during this training course gives you a practical and achievable strategy to use for improving industrial operations that want operating assets to perform at levels that will let them become world class businesses.

In this course be prepared to be challenged on many of your long term beliefs. Be prepared to discover new insights and find the correct understandings that will change the future of your business and career. PWW allows you to produce a simpler enterprise asset management and maintenance delivery model for your business. You re-build your processes so you are guaranteed to get greater reliability and productivity than ever before from operating assets. You'll find that using the Plant Wellness Way is simple, logical and most importantly, effective in bringing real operational and maintenance success. It makes companies unclutter years of organic, and in many cases random and reactive development. You will understand exactly what your company needs to do, and how it must be done, to quickly change and become a world class operation.

This course will teach you to identify and to fix the issues that destroy your plant and equipment reliability. The process improvements you learn will let you deliver excellent asset management and maintenance solutions that get the greatest plant uptime and least maintenance costs possible for your operation. In this Plant Wellness Way of Enterprise Asset Management and Maintenance Improvement training you are taught to redesign your physical asset management and maintenance processes so that you know they will deliver outstanding equipment performance with least cost production. You will know how to turnaround poor operating asset results by building asset management and maintenance processes that stop the causes all your production troubles, and instead bring you the maximum production success.

With the knowledge gained in this Plant Wellness Way of Enterprise Asset Management and Maintenance Improvement course, you'll return to your company with new answers and powerful techniques to build a sure business system-of-success, with highly effective processes that get asset management, maintenance management, and reliability management done right first time. From these two days of training you take home vital knowledge of what you must know and do to ensure you rebuild your operation with powerful, robust, anti-fragile, highly successful business and asset life cycle processes the Plant Wellness Way.



## Learning Content in The Plant Wellness Way of Enterprise Asset Management and Maintenance Improvement Training Course

Day 1 – EAM Process Design	Day 2 –Reengineering Processes for Excellence
<p><b>Foundational Concepts</b></p> <ul style="list-style-type: none"> <li>• Why your Plant and Equipment Fail</li> <li>• Physics of Failure</li> <li>• Human Factors and Human Error</li> <li>• Life Cycle Physical Asset Management</li> <li>• Business System and Process Behaviour</li> <li>• Process Outcome Distributions</li> <li>• Cost and Loss Functions</li> <li>• <i>Case Study:</i> Process Performance Monitoring</li> </ul>	<p><b>Process Reliability Improvement</b></p> <ul style="list-style-type: none"> <li>• Improving Plant and Equipment Reliability</li> <li>• Improving Business Process Reliability</li> <li>• Improving Work and Task Reliability</li> <li>• Precision in Operation and Maintenance</li> <li>• 3Ts of Work Quality Control and Assurance</li> <li>• Setting each step’s 3T PQIs</li> <li>• <i>Activity:</i> Identify process step 3Ts</li> </ul>
<p><b>Map the Processes You Have</b></p> <ul style="list-style-type: none"> <li>• Gather All Information about a Process</li> <li>• Flowchart your operation top-down</li> <li>• Setting Step Process Quality Indicators (PQIs)</li> <li>• Find the Step PQIs and Process PIs</li> <li>• Total Cost of Plant and Equipment Failure</li> <li>• Gauging Business and Operating Risk</li> <li>• Identify where Risks Live in Your Operation</li> <li>• <i>Example:</i> Develop a Process Map</li> </ul>	<p><b>Equipment Reliability Growth</b></p> <ul style="list-style-type: none"> <li>• Failure Patterns and Failure Modes</li> <li>• Reliability Growth Cause Analysis</li> <li>• <i>Example:</i> Reliability Growth Cause Analysis</li> <li>• Including POFFA in a RGCA</li> <li>• Setting Reliability Standards</li> <li>• Challenge Your Business to Meet High Precision Standard</li> <li>• Set Precision Targets for Accuracy Controlled Reliability</li> </ul>
<p><b>The Accuracy Controlled Enterprise</b></p> <ul style="list-style-type: none"> <li>• How the Human Brain Works</li> <li>• Building Business Processes for Humans</li> <li>• The Precision Principle</li> <li>• Plant and Equipment Defects, Failures and Errors</li> <li>• Creating Standard Operating Procedures</li> <li>• Adding Job Accuracy Controls</li> <li>• Good, Better, Best’ Quality Bands</li> <li>• Train People to Your SOPs</li> <li>• Make Your Organization an ACE</li> <li>• The Value of Precision Quality</li> <li>• Imbedding 3T quality standards in processes</li> <li>• Script how to get each of a step’s PQI</li> <li>• ACE is a Business Culture and Personal Philosophy</li> <li>• Using ACE 3T Procedures</li> <li>• <i>Case Study:</i> Writing an ACE 3T procedure</li> </ul>	<p><b>Measuring to Improve Performance</b></p> <ul style="list-style-type: none"> <li>• Monitoring a Process and Its Process Steps</li> <li>• Process Performance Distribution Curves</li> <li>• Monitoring and Measuring Maintenance</li> <li>• <i>Example:</i> Developing a Performance Distribution Curve</li> </ul>
<p><b>Organization Structure and Teams</b></p> <ul style="list-style-type: none"> <li>• Knowledge-based, expert-team structure</li> <li>• The Reliability Improvement Value of Autonomous Team</li> <li>• Using Reliability Principles to Create Organizational Structures</li> </ul>	<p><b>The Chance of Success</b></p> <ul style="list-style-type: none"> <li>• Chance of Success Mapping explained</li> <li>• Modelling Your Processes in a Spreadsheet</li> <li>• Identify a step’s Chance of Success</li> <li>• Identify All Future Risks</li> <li>• Estimating Chance of Process Success</li> <li>• Estimating Chance of Equipment Success</li> <li>• Checking the impact of new changes</li> <li>• <i>Example:</i> Chance of Success Analysis</li> </ul>
<p><b>Precision Maintenance Skills and Standards</b></p> <ul style="list-style-type: none"> <li>• Financial and Operating Benefits of Precision Maintenance</li> <li>• Importance of Work Quality Standards for Machine Reliability</li> <li>• Precision Maintenance Program</li> <li>• Setting Precision Quality Standards for Your Equipment</li> <li>• Accuracy Controlled Maintenance Quality System</li> <li>• Engaging the Workforce</li> <li>• Precision Maintenance the Plant Wellness Way</li> </ul>	<p><b>Control Operational Processes</b></p> <ul style="list-style-type: none"> <li>• Processes Engineered to Run Most Successfully</li> <li>• Process Chance of Success Modelling</li> <li>• Establish Process and Step Performance Indicators</li> <li>• Gather Evidence and Monitor Results and Chance of Success</li> <li>• Monitor for New Reliability and Improvement Opportunities</li> <li>• <i>Example:</i> Process Reengineering</li> </ul>



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Day 1 – EAM Process Design	Day 2 –Reengineering Processes for Excellence
<p><b>Design the Process Quality You Need</b></p> <ul style="list-style-type: none"> <li>• Understanding the Implications of the Asset Life Cycle</li> <li>• Quality Inheritance Transfer and Defect Creation</li> <li>• Choosing the Assets to Analyse</li> <li>• Choosing the Components to Analyse</li> <li>• Parts Stress to Process Analysis methodology</li> <li>• The risk reduction options you have</li> <li>• <i>Activity:</i> Stress to Process Analysis Maintenance Strategy</li> </ul>	<p><b>Failure Root Cause Prevention</b></p> <ul style="list-style-type: none"> <li>• Improve the Process Design</li> <li>• Prevent the Chance of Failure Starting</li> <li>• Identify Where Your Equipment Problems Begin</li> <li>• Behaviours of High Reliability Organizations</li> <li>• Limitations of Materials of Construction</li> </ul>
<p><b>Gap Analysis and Improvement</b></p> <ul style="list-style-type: none"> <li>• Identify Risks and Weakness in Current Processes</li> <li>• The Necessary Changes to Make to Processes</li> <li>• Using Plant Wellness IONICS for improvement</li> <li>• Documents to be Written or to be Changed</li> <li>• Gauging the Expected Improvements</li> <li>• Making a Business Case for a Process Change</li> <li>• <i>Activity:</i> Do a Process Gap Analysis</li> </ul>	<p><b>Change Management for Workplace Innovation</b></p> <ul style="list-style-type: none"> <li>• Install Quality Management in Your Processes</li> <li>• Getting your people involved in the redesign</li> <li>• ‘Push the Limit’ Concept</li> <li>• Driving Continuous Improvement with ACE 3T Procedures</li> <li>• Change Goals to Get Better Results</li> <li>• Documents Need to Be Visual for Fast Understanding</li> <li>• Train Only in the Procedure to Use</li> <li>• Testing and prototyping changes</li> <li>• ‘Change To Win’ Team-Based Business Improvement Program</li> </ul>
<p><b>Introduce Risk Control Solutions</b></p> <ul style="list-style-type: none"> <li>• Set Operating, Maintenance and Engineering ACE Quality Standards</li> <li>• Write Accuracy Controlled Enterprise 3T Procedures</li> <li>• Make Delivery of Defect Elimination and Failure Prevention a Management Duty</li> <li>• Training and Competency Assessment Plans</li> <li>• Build Autonomous Cross-Functional Teams</li> <li>• Setting ACE Target – Tolerance – Test Requirements</li> <li>• Examples of an Accuracy Controlled Procedure</li> <li>• Personnel Assessment and Training</li> <li>• Set Up Cross-Functional Knowledge Teams</li> </ul>	<p><b>Synthesize Ideas to Continually Improve</b></p> <ul style="list-style-type: none"> <li>• Plant Wellness Index</li> <li>• Potential for World Class Reliability</li> <li>• Organizational Capability to Have High Reliability</li> <li>• Process Monitoring and Feedback</li> <li>• Find Hiding Risks and Eliminate</li> <li>• Find Remaining Life Cycle Risks</li> <li>• Identify More Successful Risk Reduction Strategies</li> <li>• ‘Push the Limit’ Projects</li> <li>• Make the Best Way the Only Way Used in Your Operation</li> <li>• Confirm Reliability Growth in Your Processes</li> </ul>