

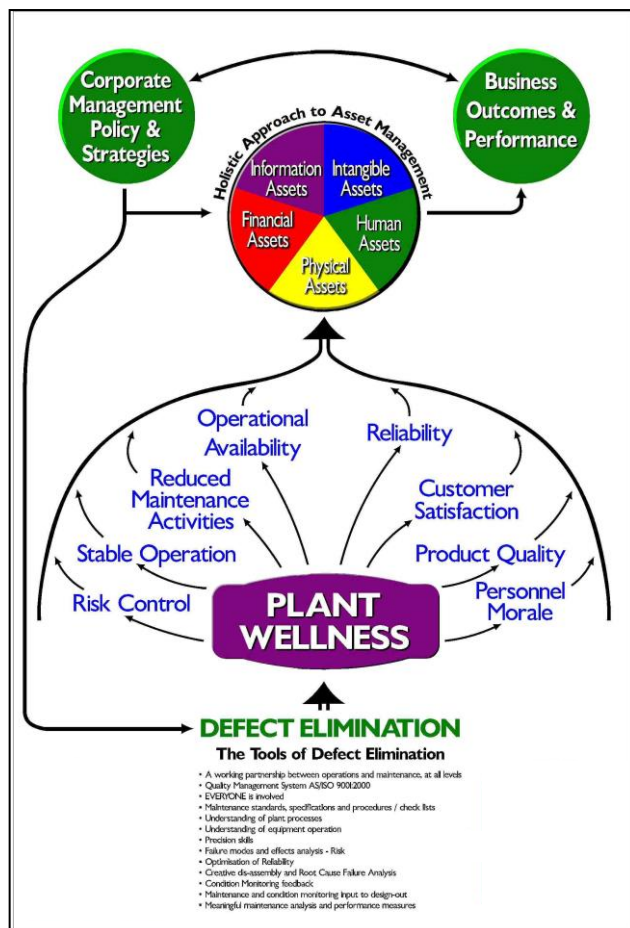
Design, build and install an integrated, life-cycle EAM system for the utmost reliable, productive, zero-breakdown operating assets

Plant Wellness Way EAM Methodology Training Course by Tutored, Online Distance Learning

Enterprise Asset Management for World Class Operational Success

Executives, Managers, Engineers & Supervisors Who Want World Class Asset Reliability

Packed with all the important knowledge and powerful techniques used in the Plant Wellness Way EAM methodology, this course lets you make operating plant and equipment world class reliable. You learn and practice Plant Wellness



Way enterprise asset management solutions, understandings and methods that get world-class asset performance, productivity, and profits. You'll use world-leading methods for designing, building and embedding an EAM system that makes your operating equipment run failure-free for longest; produce reliably at maximum sustainable throughput; and make utmost operating profits.

You discover how in every phase of your plant and equipment life-cycle you can focus your engineering, maintenance and operational methods and practices on defect removal and failure elimination. In the '3-Month Plant Wellness Way EAM Training Course by Expert-Tutored, Online, Distance Education' you learn the fastest way to get world class reliable assets by intentionally making your business systems, processes and practices ever more certain to turn your organisation into a world-class operation with utmost profits.

Immediately start improving your operational management, asset management, and maintenance management performance with the knowledge, solutions, and disciplines you get in the course. You'll rapidly recover the most value from your operating facilities, equipment and infrastructure with the powerful, world-class, integrated, life-cycle EAM methodology to learn. The '3-Month Plant Wellness Way EAM Training Course by Expert-Tutored, Online, Distance Education' gives you a methodology to build the right processes with the most successful practices that slash your operating costs and keep them low, produce the lowest maintenance costs, and deliver top productivity from your operating assets.

Your Expert PWWEAM Trainer



Mike Sondalini is a professional engineer with first class honours degree. A renowned speaker, trainer and presenter with experience in Australia, Europe, Africa, Southern Asia, and South East Asia. He is the author of three international publications: **Industrial and Manufacturing Wellness—the Complete Guide to Successful Enterprise Asset Management, Plant and Equipment Wellness—a Process for Exceptional Equipment Reliability and Maximum Life Cycle Profits**, and the **Pocket Maintenance Advisor** used in operations worldwide. In 2017 he formed a partnership with global organization APSYS-Airbus to offer Plant Wellness Way EAM as an internationally supported business solution. Mike has extensive industrial business experience, equipment reliability

improvement, and plant maintenance optimization expertise. He uses that knowledge and the insights gained over decades in industry to give you on a thorough and comprehensive coverage of the key reliability improvement knowledge, life-cycle asset management understandings, and work management techniques and solutions that improve asset productivity, reduce maintenance costs and maximise operating asset reliability, and operational performance.

With an engineering career starting in 1973, Mike has worked in physical asset management, reliability engineering, and maintenance in a wide range of companies and operations, including original equipment manufacturing, beverage production, resources and mining industries, fabrication and construction, process plants, industrial chemical manufacturing, quality management, project management, industrial asset management, maintenance management and industrial training. He uses his years of experience in business and industry to focus on the critical success factors of what to do for sure reliability improvement, and how to do it quickly and well.

Mike shows you how to get the utmost success from Plant Wellness Way EAM and make great reliability improvement decisions, effectively use your resources, work expertly in the least time necessary, and continually improve your operational and maintenance productivity, efficiency and effectiveness. Learn how to use your Enterprise Asset Management System to:

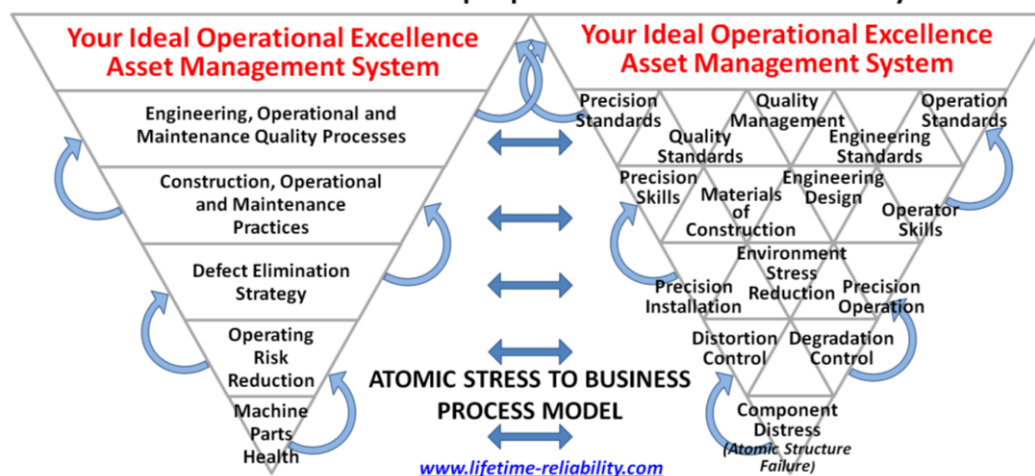
- make plant and equipment run consistently at highest availability,
- **produce at your greatest OEE from existing plant,**
- make utmost operating profit, and be sure to always get it,
- **massively reduce production costs and wastes,**
- quickly get the lowest maintenance costs and sustain them forevermore,
- **make highest productivity inevitable in your operation,**
- get maximum lifetime reliability and slash capital spending on new assets.

Discover what you must focus on and which activities really create a world class enterprise asset management system that drives world class plant and equipment performance. You understand how to intentionally make your business processes and production equipment more and more reliable and turn your organisation into world-class operation.

Guarantee Least Maintenance Costs and Highest Equipment Uptime

You get successful plant and equipment reliability management methods and learn truly effective life cycle Enterprise Asset Management (EAM). You get a business-wide discipline full of powerful life cycle asset management methods that focus your efforts on doing what is important to get world class equipment reliability. You see how to get greatest productivity, and lasting performance improvements, in your operation. You learn to creating reliability by using Plant Wellness WAY EAM (PWWEAM) in your operation. You get all the Plant Wellness Way EAM methodology in its complete details. You are walked-through how to successful use PWWEAM life cycle enterprise asset management to guarantee world class operating asset reliability. You discover the critically few, most valuable processes and practices you need to get utmost equipment uptime and operating profit from physical assets. You get the best reliability improvement methods and practices to focus your efforts for maximum asset productivity and operating profits.

The Plant and Equipment Wellness Way



- Use processes and systems that solve Enterprise Asset Management, reliability and maintenance problems.
- Understand why business processes (projects, engineering, operations, finance, and quality) need to interact correctly to get lasting, least operating costs and high plant availability, and learn how that is done.
- Discover the novel, innovative and revolutionary concepts needed to be a world-class operation.

- Learn the foundational practices and understandings vital for successful enterprise asset management.
- **See how to ensure you always get your operational plans and profits with the systems and processes of Plant Wellness Way EAM.**
- Manage your plant and equipment life cycles from concept through to decommissioning so you and your company make the great decisions that bring sure business success.
- **Learn to integrate design, operations, maintenance, and finance for maximum business risk management and operating profits.**
- Target operational excellence success with a new, life-cycle quality focus to get exceptional asset reliability and 100% right-first-time output.



The Plant Wellness Way EAM system, methods and practices you get let you find the best answers to:

- Design an operation designed for outstanding success
- Get 100%-dependable full production,
- Ensure in-full-on-time delivery,
- Deliver first-pass quality product every time,
- Produce sustained maximum throughput,
- Protect against no penalty claims,
- Get zero breakdowns,
- Create non-stop highest plant availability,
- Dramatically extended time between failures,
- Make extra production from your 'hidden factory.'

Learn to identify the best solutions to life-cycle issues affecting your operating plant and equipment performance. Discover simple, certain methods that produce the highest pay-offs from industrial and manufacturing plant and operating equipment. Find out how to involve and motivate your workforce to minimize your operating risks and maintenance problems, while consistently producing maximum throughput. Know how to make your plant and equipment truly reliable.

Attend this course and discover the specific methods that really make the difference in getting highly productive operating plant. Learn how to use them to improve your business' performance. You get the right information and methods to improve your business processes and its operating and maintenance practices, so world-class performance becomes natural, normal and inevitable for you. A Plant Wellness driven operation will deliver least cost production that delivers big operating profit margins. It does not matter the industrial or manufacturing business you do.

Use the Right Processes, Practices and Disciplines That Guarantee World-Class Equipment Performance in Your Operation

The training content coverage in the '3-Month Plant Wellness Way EAM Training Course by Expert-Tutored, Online, Distance Education' is comprehensive and includes the work processes and the business systems needed to coordinate and achieve maximum production plant performance and equipment reliability. Find out how to institute the few vital practices and processes to get maximum life-cycle profits from your operating plant and equipment. Be guided in your workplace with new understandings of the right concepts to use—from their fundamental implications through to their masterful implementation.

During the course you get all the details on the methods you need to use to get world class operational asset reliability and excellent equipment performance. You'll get your enterprise asset management system to deliver least production costs and highest profit margins by:

- **controlling the inherent variability in your business and operating processes to within designated limits,**
- eliminating your operational risk by reducing the likelihood of adverse incidents, along with minimising their consequences,
- **using failure preventing quality standards throughout your plant and equipment lifetime, including capital equipment acquisition and installation,**
- stopping human error with accuracy-controlled procedures, thereby ensuring world class precision quality in all workplace activity and human interventions,
- **minimising total life cycle costs with proactive 'what-if' modelling to see what robs your operating profits.**



In the course you cover the key practices and the important factors of systems engineering, reliability engineering, maintenance management, operational management, risk management, industrial engineering and sound financial management that create certain asset life-cycle management success. Your training addresses the three areas to focus on that guarantee world class equipment reliability and outstanding production plant and operational asset performance.

1) Reliability: The fundamentals and understandings of what really drives and creates machine reliability. You learn the critical concepts that get the most out of your operating asset's performance. You learn the important issues, such as maximising series process reliability, reducing operating risk with chance reduction strategies and not only focusing on consequence reduction strategies, grasping the implications of the 'physics of failure' when considering parts replacement and equipment purchases, and how to proactively apply failure-elimination on your equipment.

2) Maintenance: Complete knowledge on the quality standards, component risk strategies and right methods to use to sustain highest reliability of your operating equipment. You learn how to develop a one-page operational risk management model for your business. You are taught how to build holistic maintenance plans containing the fewest actions, the simplest equipment monitoring and the most powerful continual improvement strategies to create safe, sure, highest reliability, lowest maintenance costs, fullest production. *(The holistic plan you learn is perhaps the most important document that you will create in the life of your operation.)* You learn to build the best maintenance processes to prevent failure with systematic inspection, detection, and correction of embryonic failures before they develop into problems. You are taught to embed the right principles and the successful practices into your maintenance management system, so it always delivers world class reliable equipment.

3) Asset Management: Core factors critical to successfully build and run operations for highest reliability and availability. Including the best way to maximise life cycle profits, identifying and using the systems and practices that produce most benefit for your operation, and the successful ways to involve and motivate your workforce to produce great workplace results. You see how to combine the best reliability and maintenance knowledge into a lifetime strategy for your plant and equipment that moves your business quickly toward top-class performance and keeps it there. You learn to use Plant Wellness Way EAM to turn your company around and become a place where operational excellence thrives.

In the course you learn exactly how to guarantee your machines last longest, that world class work quality is natural, and that delivery schedules are surely met. You'll know how to build the best asset management and maintenance processes to prevent failure. You'll be able to design business systems and processes to produce 100% right outcomes. You will discover and learn to use the right principles and the proper practices of successful EAM systems that naturally get world class life-cycle asset management, operational and maintenance success.



A 100% Money Back Guarantee

You have a 100% Money Back Guarantee during your training period. If for any reason before course completion, you feel your expectations have not been met, your fee will be fully refunded. As further compensation you keep all materials handed out during the training. *(This Guarantee is subject to the full fee being received before starting the course.)*

More Course Information and Details

A certificate of training is provided to participants at the completion of the course.

The course schedule is 08.00 to 16.00 each day. Morning and afternoon tea, and a light lunch is provided daily. The training venue may change to another of equivalent quality depending on the number of attendees at the course.

Please contact us by email at info@lifetime-reliability.com or by telephone on +61 8 9457 6297 or on cell/mobile +61 (0) 402 731 563 to get more information, or to answer any questions that you have.

Training Contents of “3-Month Plant Wellness Way EAM Training Course by Expert-Tutored, Online, Distance Education”

The table below contains the training content you cover in the course.

You get all the necessary concepts, the business process engineering, the work management processes, and the business systems needed to coordinate and achieve maximum equipment reliability and operational performance using the Plant Wellness Way EAM methodology. You learn the vital practices and techniques to achieve maximum life-cycle profits from your operating plant and equipment. You gain the right knowledge and the right approach to build an operation built on the correct concepts, solutions and practices that get world class operational, maintenance and reliability performance.

PLANT WELLNESS ENTERPRISE ASSET MANAGEMENT STRATEGY AND PLANS			IMPLEMENTATION AND IMPROVEMENT	
Overview and Foundational Concepts	Operating Risk Analysis & PROCESS 1 & 2	Plant Reliability Strategy & PROCESS 3	Work Quality Control & PROCESS 4	Get to Excellence & PROCESS 5 & 6
<p>Introduction</p> <ul style="list-style-type: none"> • Build a System for Reliability • Plant Wellness Way Overviewed • IONICS Processes • Plant Wellness Way Vision 	<p>Asset Management for Plant Wellness</p> <ul style="list-style-type: none"> • Successful Asset Management by Design • Analyse Operational Consequences during Project Design • DOCTOR • EAM the Plant Wellness Way • Introducing Enterprise Asset Management and Plant Wellness into Organizations • Asset Management and Plant Wellness Policy • Maintenance Vision, Policy and Maintenance Strategy 	<p>Removing Risks and Raising Reliability</p> <ul style="list-style-type: none"> • Identifying Equipment Reliability Growth Opportunities • Apply Series System Reliability Property 1, 2 and 3 • Developing a Highly Successful Equipment Risk Prevention Plan • Physics of Failure Mechanisms and Their Failure Causes • Physics of Failure Factor Analysis for Reliability Strategy Selection • <i>Example:</i> Physics of Failure Factors Analysis • Developing Physics of Failure Based Reliability Strategy 	<p>Critical Philosophies to Include</p> <ul style="list-style-type: none"> • Why your Plant and Equipment Fail • Physics of Failure • Human Factors and Human Error • Life Cycle Physical Asset Management • Business System and Process Behaviour • Process Outcome Distributions • Cost and Loss Functions • <i>Case Study:</i> Process Performance Monitoring 	<p>Reliability Growth</p> <ul style="list-style-type: none"> • Failure Patterns and Failure Modes • Reliability Growth Cause Analysis • <i>Example:</i> Reliability Growth Cause Analysis • Including POFFA in a RGCA • Setting Reliability Standards • Challenge Your Business to Meet High Precision Standard • Set Precision Targets for Accuracy Controlled Reliability
<p>Reliability of Work, Processes and Machines</p> <ul style="list-style-type: none"> • Jobs and Work Process Reliability • Maximizing Work Process Success • Business Process Reliability • Industrial Equipment Reliability • Reliability, Safety and Risk • Control of Series Process Reliability 	<p>Quality Standards for Failure Prevention</p> <ul style="list-style-type: none"> • The Need and Purpose of Standardisation • How to Use Standardization in Your Business • Set the Risk Management and Quality Standards Required • Defect Creation, Defect Management, Defect Elimination Business Model 	<p>Chance Reduction Risk Management</p> <ul style="list-style-type: none"> • Impact of the Choice of Risk Reduction Strategies • Power Law Implications • Similarity between Safety Incidents and Equipment Failures • 3-Factors Risk Analysis 	<p>Design and Map the Processes You Need</p> <ul style="list-style-type: none"> • Gather All Information about a Process • Flowchart your operation top-down • Setting Step Process Quality Indicators (PQIs) • Find the Step PQIs and Process PIs • Total Cost of Plant and Equipment Failure • Gauging Business and Operating Risk • Identify where Risks Live in Your Operation • <i>Example:</i> Develop a Process Map 	<p>Measuring to Improve Performance</p> <ul style="list-style-type: none"> • Monitoring a Process and Its Process Steps • Process Performance Distribution Curves • Monitoring and Measuring Maintenance • <i>Example:</i> Developing a Performance Distribution Curve

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<p>The Physics of Failure</p> <ul style="list-style-type: none"> • The Cause of Machinery and Equipment Parts Failure • Science of Failure • Limits of Material Strength • Engineering Limitations are a Part of the Design • Production Limitations are a Part of the Design • Equipment Reliability Cliffs 	<p>PROCESS 1 – Identify Business & Operational Risks</p> <ul style="list-style-type: none"> • Start with a Process Map of the Situation • Business Process Maps • Equipment Process Maps • Equipment Failure Review • Work Activity Process Map • Work Process Risk Review • Calculating TDAF Cost • How to Develop TDAF Cost Tables • Risk Rating with TDAF Costs • <i>Case Study</i>: Finding All Business Losses from Failures 	<p>Selecting Reliability Strategy</p> <ul style="list-style-type: none"> • Maintenance for Risk Control • Failure Prevention Focus • Physics of Failure Reliability Strategy Analysis • Life Cycle Tasks, Work Procedures, Critical Spares • Verifying Business Benefits • Documenting Plant Reliability and Operating Strategy • Set the Business Objectives • Document Asset Maintenance Strategy and Plans • Rolling 5-Year Maintenance Program • Rolling 2-Year Maintenance Budget 	<p>The Accuracy Controlled Enterprise</p> <ul style="list-style-type: none"> • How the Human Brain Works • Building Business Processes for Humans • The Precision Principle • Plant and Equipment Defects, Failures and Errors • Creating Standard Operating Procedures • Adding Job Accuracy Controls • Good, Better, Best' Quality Bands • Train People to Your SOPs • Make Your Organization an ACE • The Value of Precision Quality • ACE is a Business Culture and Personal Philosophy • Using ACE 3T Procedures 	<p>The Chance of Success</p> <ul style="list-style-type: none"> • Chance of Success Mapping • Estimating Chance of Process Success • Estimating Chance of Equipment Success • <i>Example</i>: Chance of Success Analysis
<p>Variability in Outcomes</p> <ul style="list-style-type: none"> • Observing Variability • Controlling Process Variation • Controlling Business Process Performance • What Quality Is • Defect Elimination Strategy 	<p>Operating Equipment Risk Assessment</p> <ul style="list-style-type: none"> • Estimating Risk • Assess Allowable Frequency Using the Risk Formula • Equipment Operating Criticality • Determining Asset Operating Criticality • Conducting a Risk Analysis • Using the Risk Matrix to Gauge Risk 	<p>PROCESS 3 – Numerate Risk Elimination Options</p> <ul style="list-style-type: none"> • Plant Wellness Way Risk Elimination and Reliability Methodology • How to Do a Physics of Failure Reliability Strategy Analysis • <i>Example</i>: POF Reliability Strategy Analysis • Selecting High Reliability Strategy • Doing a 3-Factors Risk Analysis • Organisational Factors Analysis of Critical Parts Failure • Allocating Responsibility to do Strategy Requirement • Confirming Economic Value of 	<p>Organization Structure and Teams</p> <ul style="list-style-type: none"> • The Reliability Improvement Value of Autonomous Team • Using Reliability Principles to Create Organizational Structures 	<p>PROCESS 5 – Control Operational Processes</p> <ul style="list-style-type: none"> • Processes Engineered to Run Most Successfully • Process Chance of Success Modelling • Establish Process and Step Performance Indicators • Gather Evidence and Monitor Results and Chance of Success • Monitor for New Reliability and Improvement Opportunities • <i>Example</i>: Process Reengineering

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		New Strategy		
Instantaneous Cost of Failure <ul style="list-style-type: none"> • Effect of Failures on a Business • Failure Cost Surge • Total Defect and Failure Costs • Costing the Failure Consequences • <i>Example:</i> Calculating TDAF Cost 	PROCESS 2 – Order Risks by Importance <ul style="list-style-type: none"> • Specify the Asset Performance that delivers the Operational Requirements • Determine the Business Risk from Operating Failures • Assessing Operating Equipment Risk • <i>Example:</i> Operating Criticality Analysis • The Problem with Standard Equipment Criticality 		Precision Maintenance Skills and Standards <ul style="list-style-type: none"> • Financial and Operating Benefits of Precision Maintenance • Importance of Work Quality Standards for Machine Reliability • Precision Maintenance Program • Setting Precision Quality Standards for Your Equipment • Accuracy Controlled Maintenance Quality System • Engaging the Workforce • Precision Maintenance the Plant Wellness Way 	Failure Root Cause Prevention <ul style="list-style-type: none"> • Improve the Process Design • Prevent the Chance of Failure Starting • Identify Where Your Equipment Problems Begin • Behaviours of High Reliability Organizations • Limitations of Materials of Construction
Preventing Life Cycle Risks <ul style="list-style-type: none"> • Raising the ‘R’ • Stress-to-Process Model • Plant Wellness Way Methodology • Asset Management Strategy from Physics of Failure Factors Analysis • Plant and Equipment Risk Identification • Business Risk Impact Review • Risk Reduction Decisions 			Gap Analysis and Improvement <ul style="list-style-type: none"> • Identify Risks and Weakness in Current Processes • The Necessary Changes to Make to Processes • Using Plant Wellness IONICS for improvement • Documents to be Written or to be Changed • Gauging the Expected Improvements • Making a Business Case for a Process Change • <i>Activity:</i> Do a Process Gap Analysis 	Change Management for Workplace Innovation <ul style="list-style-type: none"> • Install Quality Management in Your Processes • Documents Need to Be Visual for Fast Understanding • Getting your people involved in the redesign • Train Only in the Procedure to Use • ‘Push the Limit’ Concept • Driving Continuous Improvement with ACE 3T Procedures • Change Goals to Get Better Results • Testing and prototyping changes • ‘Change To Win’ Team-Based Business Improvement Program

PLANT WELLNESS ENTERPRISE ASSET MANAGEMENT STRATEGY AND PLANS			IMPLEMENTATION AND IMPROVEMENT	
Overview and Foundational Concepts	Operating Risk Analysis & PROCESS 1 & 2	Plant Reliability Strategy & PROCESS 3	Work Quality Control & PROCESS 4	Get to Excellence & PROCESS 5 & 6
			<p>PROCESS 4 – Introduce Risk Control Solutions</p> <ul style="list-style-type: none"> • Set Operating, Maintenance and Engineering ACE Quality Standards • Write Accuracy Controlled Enterprise 3T Procedures • Make Delivery of Defect Elimination and Failure Prevention a Management Duty • Training and Competency Assessment Plans • Build Autonomous Cross-Functional Teams • Setting ACE Target – Tolerance – Test Requirements • Examples of an Accuracy Controlled Procedure • Personnel Assessment and Training • Set Up Cross-Functional Knowledge Teams 	<p>Plant Wellness Index</p> <ul style="list-style-type: none"> • Potential for World Class Reliability • Organizational Capability to Have High Reliability
				<p>PROCESS 6 – Synthesize Ideas to Continually Improve</p> <ul style="list-style-type: none"> • Find Hiding Risks and Eliminate • Find Remaining Life Cycle Risks • Identify More Successful Risk Reduction Strategies • 'Push the Limit' Projects • Make the Best Way the Only Way Used in Your Operation • Confirm Reliability Growth in Your Processes

Course Registration Form and Payment Details

1 - Select Your Course: **3-Month Plant Wellness Way EAM Training Course by Expert-Tutored, Online, Distance Education**

3-Month Plant Wellness Way EAM Training Course by Expert-Tutored, Online, Distance Education

2 - Registration Fee (fully paid in advance):

Total Cost = AUD \$3,300 for Australian residents

= AUD \$3,000 for Overseas residents

Training cost includes GST for Australian residents

Attendees get an electronic copy of the training course materials with unrestricted usage rights within their operation.

3 - Register:

By Phone: (+61) (0)402 731 563

By Email: info@lifetime-reliability.com

By Post: General Training Pty Ltd
PO Box 2091,
Rossmoyne, 6148, WA
Australia

4 – Pick Payment Option and Make Payment:

A. Electronic Fund Transfer to:

Bank: National Australia Bank
Branch: Shop 33 Stockland Bull Creek,
Cnr South Street and Benningfield Road
Bull Creek, WA, 6149, Australia
Account: General Training Pty Ltd
BSB No: 086138
Account No: 580663221
Swift Code: NATAAU3306P

B. Cheque in favour of 'General Training Pty Ltd'

C. Credit Card secure online at www.paypal.com (NOTE: fee applies) Australian companies to include GST in payment

PayPal Online Payment Details:

Email address: info@lifetime-reliability.com

Order/Item #: **3-Month PWWEAM Tutored Course**

D. Purchase Order:

(NOTE: P.O. is only accepted from an Australian company)

Cancellation Policy:

Substitute delegate welcome. 100% refund during the training course (see the "100% Money-Back Guarantee" section).

5 - Delegate Details (One form per person):

Name:

Job Title:

Company:

Street/Box:

Suburb:

Zip/Post Code: State/Country:

Email:

Phone No:

6 - How did you find out about the course?

7 - If you learnt of the course on the Internet - which website did you visit?

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