



Epsilon Reliability Solutions Limited

Consultancy, Training and Industry event production in Maintenance, Reliability, Asset Performance management and Operational Excellence

A Culture of Excellence

Course Catalogue 2024.

Course Categories	Target Audience	Course Title
Maintenance Engineering	Maintenance & Operations	<ol style="list-style-type: none"> 1. Understanding Failures Causes 2. Root Cause Analysis 3. Proactive Maintenance 4. Predictive Maintenance 5. Work Management Principles 6. Fundamentals of Maintenance Reliability 7. Zero breakdown Maintenance 8. Rotating Equipment Maintenance (Machinery Health Management) 9. Fundamentals of Machine Vibration 10. Reliability Centered Maintenance: Analysis to Implementation. 11. Total Productive Maintenance: Running a Successful TPM Program 12. Preventive Maintenance Strategy Program Development 13. Plant & Equipment Maintenance Overview 14. Precision Maintenance and Machinery Health Concept. 15. How to Develop and Establish a Condition Based Predictive Maintenance Program 16. Maintenance Work Processes and Procedures. 17. Maintenance Planning and Scheduling 18. Maintenance Management Mastery 19. Maintenance History Analysis: Uncover the Goldmine in Your Maintenance Work Order System Records. 20. Effective Maintenance Crew, People Management Skills & Maintenance Team Motivation. 21. Effective Maintenance Planning & Maintenance Scheduling System, Processes & Practices. 22. Introduction to Maintenance Management 23. Reliability Centered Maintenance 24. Failure Modes and Effects Analysis 25. Shutdown and Turnaround Maintenance Management 26. Computerized Maintenance Management System (SAP, Limble, Upkeep, Fiix) Basics & Principles 27. Maintenance Management Basics



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<p>Certifications</p>		<ol style="list-style-type: none"> 1. Maintenance and Reliability Best Practices Master class plus CMRP Exam Preparation. 2. Certified Reliability Leader & CRL Certification 3. Machine Lubrication Analyst 1 (MLA1) - ICML 4. Machine Lubrication Analyst 11 (MLA11) - ICML 5. Asset Reliability Practitioner – Advocate (ARP-A) 6. Asset Reliability Practitioner – Engineer (ARP -E) 7. Asset Reliability Practitioner – Leader (ARP-L) 8. Infrared Thermography Level 1 Certification 9. Maintenance & Reliability Transformation (MRT) 10. Asset Advantage Certification – Individual 11. Asset Advantage Certification – Organization 12. CompEx Certification 13. API RP 2D Qualified Crane Inspector Training 14. Crane Operator Training and Certification 15. Rope Access technician Certification 16. CAT I, II, III Vibration Analyst and Technician Training.
<p>Reliability Engineering Improvement</p>	<p>Supervisors Engineers Project Managers Team Leaders Managers Executives</p>	<ol style="list-style-type: none"> 1. Reliability Centered Maintenance – Bedrock for Effective Reliability Focused Strategies 2. Reliability and Asset Performance Management 3. Reliability models and analysis 4. Reliability, Availability, Maintainability and Safety Modelling (RAMS) 5. Condition Monitoring Optimization, Tools & Models for Ideal Predictive Maintenance Inspections. 6. Equipment Reliability Improvement 7. Equipment Replacement Decision Modelling: Making Optimal End of Life Refurbish and Replace Choices. 8. Failure Modes, Effects and Criticality Analysis with Case Studies. 9. Optimal Equipment Overhaul: Model to Make Continue Repairing or Do an Overhaul Decision. 10. Reliability Growth Analysis: Tracking Reliability Trends. 11. Weibull Analysis: Weibull Failure Probability Distribution Plot Modelling.



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		12. Maintenance Management Best Practices: Systems & Tools
Leadership and Cultural alignment	Supervisors Engineers Project Managers Team Leaders Managers Executives	<ol style="list-style-type: none"> 1. Change Management for Reliability Leaders 2. Leading Maintenance and Reliability Teams / Organization 3. Delivering Seamless Reliability Results (Reliability Projects) 4. Achieving Cost Management Goals 5. Creating and Implementing a Professional Development Plan for your Team 6. The Business of Maintenance and Reliability 7. Leading in Reliability: Business Process Re - Engineering
Machinery Health		<ol style="list-style-type: none"> 1. Rotating Equipment Management (Pumps, Compressors and Engines) 2. Diesel Engine Cycles, Maintenance and Control. 3. Internal Combustion Engine Basics 4. Centrifugal Pump Maintenance & Pumping System Design 5. Machinery Shaft Alignment 6. Precision Maintenance & Machinery Health Concept 7. Fundamentals of Machinery Vibration 8. Infrared Thermography 9. Machine Lubrication Management Program 10. Oil Analysis Training (Theory & Practice) 11. Setting Up Your Lubrication Program 12. Basics of Hydraulics 13. Practical Pumps & Compressors: Control, Operation, Maintenance and Troubleshooting. 14. Pumps, Turbines and Compressors: Installation, Operation, Troubleshooting and Maintenance. 15. Pumps & Valve Selection, Installation, Operation and Maintenance. 16. Engineering Facilities Management Programme. 17. Bentley Nevada Vibration System Training
Enterprise Asset Management		<ol style="list-style-type: none"> 1. Business Process Design, Tools to Build or Re-engineer processes 2. How to build a successful EAM System and Process 3. Equipment Risk Assessment & Equipment Criticality



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		<ol style="list-style-type: none"> 4. How to write an SOP using the ACE 3T Mistake Proof Methodology. 5. Using the Plant Wellness Way to get Operational Excellence 6. Enterprise Asset Management Excellence, Successful EAM System Design.
Lean, Quality Management, Project Management & Other categories		<ol style="list-style-type: none"> 1. Lean & Waste Reduction 2. Value Stream Mapping 3. Lean 5S Process 4. Introduction to Lean Six Sigma 5. Operational Excellence & Plant Wellness 6. Total Productive Maintenance 7. Project Risk Management Training 8. Fundamentals of Project Management in Oil & Gas 9. Procurement & Contract Management 10. Project Management Professional Training 11. Best Practices in Capital Project Management 12. SAP Fundamentals 13. CMMS Work Order Management. 14. Cost Engineering: Effective Estimation & Cost Control of Technical Projects. 15. Basic Principles of Autonomous Maintenance and Continuous Improvement. 16. Total Productive Maintenance & 5 S Process 17. Excellence in Contract Administration and Project Management. 18. Purchasing, Warehousing, Inventory, Logistics and Supply Chain.
Electrical and Instrumentation	Electrical Technicians, Supervisors and Engineers	<ol style="list-style-type: none"> 1. Preventive Maintenance of HVAC, Electrical Systems and Maintenance 2. Earthing, Bonding, Lightning and Surge Protection: Design, Installation and Maintenance 3. Practical Boiler Control and Instrumentation 4. Electrical Design, Installation, Troubleshooting and Maintenance for Industrial and Commercial Facilities. 5. AC Electrical Motors & Drives: Troubleshooting, Maintenance & Protection.



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		<ol style="list-style-type: none"> 6. Installing, Programming & Commissioning of Power System Protection Relays, Hardware, Switch Gears & Distribution Systems. 7. Industrial Motor Controls: Operation, Troubleshooting & Maintenance. 8. Diesel Generators: Operations, Maintenance, Control, Testing and Troubleshooting. 9. Circuit Breakers & Switch Gears Inspection, Maintenance, Design, Repair and Troubleshooting Training. 10. Understanding Electrical Equipment's. 11. Lightning, Surge Protection and Bonding 12. Safe Operations and Maintenance of Circuit Breakers and Switch Gears. 13. Industrial Fire Risk Assessment, Safety and Emergency Planning. 14. Power Transformers: Operation, Maintenance and Testing. 15. Circuit Breakers & Switch Gears: Safe Operations and Maintenance. 16. Electrical Equipment Troubleshooting and Maintenance 17. SCADA 18. Powerflex 700 Series Training
Special Programs	Technicians, Engineers, Supervisors, Managers, Department & Unit Heads / Leads, General Managers, CEOs, MDs.	<ol style="list-style-type: none"> 1. Reliability Growth Workshop (Special 3 Day Workshop for Maintenance & Team to Bond, Set Goals, Break Down Goals, Create Action Plans, Monitor Progress and Get Coached by Industry Experts to Deliver beyond expectation) - <i>The Reliability Growth Workshop empowers reliability engineering leaders and maintenance managers with advanced skills, innovative strategies, and a collaborative network to drive continuous improvement, elevate operational excellence, and inspire proactive growth in their organizations</i> 2. Reliability Mastery Mastermind (Limited Slots – 10 Months – Coaching and Guidance from 6 World Class Experts)



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		<p><i>Embark on a transformative 10-month journey with our Reliability Mastery Mastermind, a visionary continuation of the Reliability Growth Retreat. This immersive program empowers you to cultivate unprecedented levels of expertise and leadership within the realm of reliability engineering and maintenance management. Guided by world-class experts, you'll refine your goals to laser precision, track your progress with unwavering accuracy, and harness advanced techniques that elevate your impact. Engage in collaborative networking, seamlessly integrating sustainability and visionary leadership to steer your career and organization towards unparalleled excellence. Celebrate profound growth, forge enduring connections, and chart a future defined by relentless innovation, all within an exclusive cohort of like-minded trailblazers. Elevate your reliability journey to the highest echelons and become the driving force of transformative change.</i></p> <p>3. African Maintenance and Reliability Conference 4. Asset Advantage; <i>Asset Advantage is a comprehensive program designed to revolutionize maintenance, reliability, and asset management practices. It combines industry-leading strategies, cutting-edge technologies, and expert guidance to optimize asset performance, reduce downtime, and drive operational efficiency. Asset Advantage offers a unique value proposition for organizations seeking to excel in maintenance, reliability, and asset management</i></p>
<p>Specialized Program – Theory, OJT, Elearning, Hands-On</p>	<p>Our Specialized Program are curated based on clients objectives.</p> <p>The audience is also expansive</p>	<ol style="list-style-type: none"> 1. Welders Training (Basic and Advanced) 2. CAT Specialist Program 3. SCADA Specialist Program 4. Reliability Transformation 5. Asset Advantage 6. Predictive Maintenance Specialist Program 7. Lubrication Excellence Specialist Program 8. Machine and Tools Training – Lathe Machine, Drilling Machine, Hydraulic Presses



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	based on the objectives stipulated.	
Health and Safety	All	<ol style="list-style-type: none">1. Basic and Advanced First Aid and CPR Training2. Designated First Aider Training3. Basic Fire Fighting Training4. Advanced Fire Fighting Training5. Advanced Fire Systems Management Training6. Emergency Response Training

This list is not Exhaustive, please share with us any subject area in Maintenance, Reliability, Asset Performance Management, Operational Excellence, Health and Safety & Business Process Improvement and we will curate the required training for your team.

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