

ENGINEERING ASSET MANAGEMENT (EAM) -2021

VIRTUAL SHORT COURSES

Designed to Optimize your Asset Integrity with:
RCM-TPM-Weibull-Pareto-Ishikawa-FMECA-RCA-
Planning and Scheduling-Turnarounds

REGISTER NOW

NO	COURSE CODE	COURSE NAME	FACILITATOR	DATE, TIME & VENUE	TARGET AUDIENCE
Zoom Presentation on Vibration Analysis (4 Contact Hours)					
1	Lectures from the MSc EAM Course • MENG 6703 'Condition Monitoring and Diagnostics'	TOPICS: <ul style="list-style-type: none"> • Alignment and balancing • Vibration Analysis • Proactive Alignment systems with software • Maintenance and Reliability programs • Vibration instruments COST: 1000TTD per participant	Dr. Greg Buscarello Certified ISO Category 3 Vibration Analyst	6th Feb 2021 Saturday 9am - 1pm ZOOM on-line	Managers, Engineers & Technicians in Reliability and Maintenance
Zoom Presentation on Maintenance Planning & Scheduling (4 Contact Hours)					
2	Lectures from the MSc EAM Course • MENG 6702 'Work Planning and Scheduling'	A CONDENSED VERSION OF THE TOPICS: <ul style="list-style-type: none"> • The Business Case for Planning and Scheduling • Principles & Concepts of Effective Planning & Scheduling • Handling Reactive Maintenance • Integrating Proactive Maintenance Activities: Preventive, Predictive Projects • Effective Workflow and Planning Exercises • Controlling Planning & Key Performance Indicators (KPI's) • Planning and Scheduling for Plant Turnarounds COST: 1000 TTD per participant	Doc Palmer Atlanta-USA Author of "Maintenance Planning & Scheduling Handbook" (used in The UWI's MSc EAM Programme)	13th Feb 2021 Saturday 9am - 1pm ZOOM on-line	Managers Engineers Technicians Planners Schedulers
Workshop on Vibration Analysis-Case Studies (4 contact Hours)					
3	Lectures from the MSc EAM Course • MENG 6703 'Condition Monitoring and Diagnostics)	TOPICS: <ul style="list-style-type: none"> • Use of equipment and software in vibration Monitoring • Case Studies in Vibration analysis • Field techniques in Vibration Analysis used to solve problems • Guides to the Interpretation of Vibration Analysis readings • New Trends in Vibration Analysis COST: 1500 TTD per participant	Mr Haffiz Yathali CMRP Managing Director YATZ Engineering Limited.	20th Feb 2021 Saturday 9am - 1pm ZOOM on-line	Managers Engineers and Technicians in Reliability and Maintenance
Maintenance Analysis & Optimization-one of the EAM MSc course (32 Contact hours)					
4	Lectures in the MSc EAM Course- • MENG 6704 'Maintenance Analysis and Optimization'	TOPICS: <ul style="list-style-type: none"> • Physical Asset Management • Maintenance Policies • Weibull Analysis and other Statistical tools/software • Component Replacement Decisions • Inspection Decisions & Spare Parts Provisioning • Capital Equipment Replacement • Maintenance Resource Management • Evidence Based Asset Management (EBAM) COST: 6500 TTD per participant	Prof A.K.S. Jardine University of Toronto Co-Author of "Maintenance, Replacement, & Reliability Theory & Applications" (used in The UWI's MSc EAM programme)	6th-7th Mar 2021 27th-28th Mar 2021 Sat and Sun 9am to 5pm ZOOM on-line	Managers Engineers Senior Technicians in Reliability and Maintenance

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Strategies for the Optimization of Asset Integrity in all Industries (6 Contact hours)					
5	Lectures from the MSc EAM Courses- <ul style="list-style-type: none"> MENG 6704 'Maintenance Analysis and Optimization' and MENG 6701 Asset Maintenance Technologies 	DAY ONE WORKSHOP: <ul style="list-style-type: none"> Basics statistical calculations and decision -making analyses for the non-engineer. Failure Analysis and Decision making Processes for optimal Maintenance and Reliability recommendations in the Heavy and Manufacturing environment Strategies to optimize the Implementation of improvement decisions in Maintenance and Reliability from the Strategic Plan to the Daily Plan <p>COST: 1500 TTD per participant</p>	Professor A.K.S. Jardine University of Toronto Co-Author of "Maintenance, Replacement, & Reliability Theory & Applications" (used in The UWI's MSc EAM programme) Mr. Kishore Jhagroo Senior Lecturer – UWI Coordinator - MSc EAM Retired Maintenance Manager with 37 years of field experience	8th Mar 2021 Monday 1.30pm - 7.30pm ZOOM on-line	Managers Engineers Senior Technicians in Reliability and Maintenance
Zoom Presentation Machine Learning and Artificial Intelligence (4 Contact Hours)					
6	Lectures from the MSc EAM Course	TOPICS: <ul style="list-style-type: none"> Introduction to data science, AI and machine learning (ML): <ul style="list-style-type: none"> History of AI and other Concepts in AI and ML Basic ML algorithms: <ul style="list-style-type: none"> Supervised learning : <ul style="list-style-type: none"> Algorithms and case studies Deep learning and case studies Unsupervised learning: <ul style="list-style-type: none"> Clustering algorithms and case studies Reinforcement learning: <ul style="list-style-type: none"> Markov decision processes Basic algorithms: Q-learning, SARSA, DQL Issues and remedies: <ul style="list-style-type: none"> Sample efficiency and transfer learning Safety Explainability Other emerging technologies <ul style="list-style-type: none"> Industry 4.0 Digital twin <p>COST: 1000 TTD per participant</p>	Professor Chi-Guhn Lee University of Toronto	27th Feb 2021 Saturday 9am - 1pm ZOOM on-line	Managers Engineers & Technicians in Reliability and Maintenance
Optimization of Plant Turnaround/ Shutdown Processes (8 contact Hours)					
7	Lectures from the MSc EAM <ul style="list-style-type: none"> MENG 6702 'Work Planning and Scheduling' 	TOPICS: <ul style="list-style-type: none"> Maintenance Philosophy Strategic Planning Worklist Preparations-Scope Freezing Turnaround Organization Structure Tendering Processes & Post Turnaround Reviews Execution, Emergent work strategies and Post Turnaround Reviews CMMS Turnaround Optimization <p>COST: 2500 TTD per participant</p>	Mr. Kishore Jhagroo MSc/CRE Senior Lecturer – UWI Coordinator of the MSc EAM Retired Maintenance Manager with 37 years of field experience.	20th Mar 2021 Saturday 9am - 4pm ZOOM on-line	Managers Engineers Technicians Planners Schedulers Reliability and Maintenance Personnel

Upon completion of the course each participant will receive a Certificate of Participation

For registration, payment and other information contact: 662-6267 or Continuing.Education@sta.uwi.edu