

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

Receive a UWI's Certificate of Participation upon successful completion of each course
Please Contact the Engineering Institute UWI for applications and on-line Payment

2022 COURSE SCHEDULE

COURSE	TOPICS	FACILITATOR	DATE	TIME & VENUE	TARGET AUDIENCE
Zoom- Vibration Analysis (4 Contact Hours)					
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 the applicable software Maintenance and Reliability programs Vibration instruments COST: 2000TTD per participant	Dr. Greg Buscarello Certified ISO Category 3 Vibration Analyst	Saturday 19th February 2022	10am - 2pm ZOOM On-line	Managers, Engineers & Technicians in Reliability and Maintenance
Zoom - Maintenance Planning & Scheduling (4 Contact Hours)					
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 and Predictive Projects Effective Workflow and Planning Exercises Controlling Planning & Key Performance Indicators Planning and Scheduling for Plant Turnarounds COST: 2000 TTD per participant	Doc Palmer Atlanta-USA Author of "Maintenance Planning & Scheduling Handbook" (used in The UWI's MSc EAM Programme)	Saturday 12th February 2022	9am - 1pm ZOOM on-line	Managers, Engineers, Technicians, Planners, Schedulers
Zoom-Workshop on Vibration Analysis-Case Studies (4 contact Hours)					
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 used to solve problems Guides to the Interpretation of vibration Analysis readings New Trends in Vibration Analysis COST: 2500 TTD per participant	Mr Haffiz Yathali CMRP Managing Director YATZ Engineering Limited.	Saturday 26th February 2022	9am - 1pm ZOOM on-line	Managers Engineers and Technicians in Reliability and Maintenance

COURSE	TOPICS	FACILITATOR	DATE	TIME & VENUE	TARGET AUDIENCE
Zoom-Maintenance Analysis & Optimization-one of the EAM MSc course (32 Contact hours)					
Lectures in the MSc EAM Course MENG 6704 'Maintenance Analysis and Optimization'	<p>TOPICS:</p> <ul style="list-style-type: none"> Physical Asset Management and 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) <p>COST: 6500 TTD per participant</p>	<p>Professor A.K.S. Jardine University of Toronto</p> <p>Co-Author of "Maintenance, Replacement, & Reliability Theory & Applications" (used in The UWI's MSc EAM programme)</p>	<p>Saturday 5th March Sunday 6th March</p> <p>and</p> <p>Saturday 2nd April Sunday 3rd April 2022</p>	<p>9am - 5pm ZOOM on-line</p>	<p>Managers, Engineers, Senior Technicians in Reliability and Maintenance</p>
Zoom-Strategies for the Optimization of Asset Integrity in all Industries (6 Contact hours)					
Lectures from the MSc EAM Courses MENG 6704 'Maintenance Analysis and Optimization' and MENG 6701 "Asset Maintenance Technologies"	<p>ONE DAY WORKSHOP:</p> <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 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: 2000 TTD per participant</p>	<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)</p> <p>Mr. Kishore Jhagroo BSc, MSc, CRE Lecturer –UWI Co-Coordinator of the MSc EAM programme Retired Maintenance Manager with 37 years of field experience as a Mechanical Engineer</p>	<p>Tuesday 8th March 2022</p>	<p>12 noon to 5pm ZOOM on-line</p>	<p>Managers, Engineers, Senior Technicians in Reliability and Maintenance</p>
Zoom - Machine Learning and Artificial Intelligence (4 Contact Hours)					
Lectures from the MSc EAM Course	<p>TOPICS:</p> <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: 2000 TTD per participant</p>	<p>Professor Chi-Guhn Lee University of Toronto</p>	<p>Saturday 19th March 2022</p>	<p>9am - 1pm ZOOM on-line</p>	<p>Managers, Engineers & Technicians in Reliability and Maintenance</p>

COURSE	TOPICS	FACILITATOR	DATE	TIME & VENUE	TARGET AUDIENCE
Zoom-Optimization of Plant Turnaround/ Shutdown Processes (8 Contact Hours)					
Lectures from the MSc EAM 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 Process & Post Turnaround Reviews Execution, Emergent work strategies and Post Turnaround Reviews CMMS Turnaround Optimization COST:3500 TTD per participant	Mr. Kishore Jhagroo BSc/MSc/CRE <i>Lecturer – UWI</i> Co-Coordinator of the MSc EAM programme Retired Maintenance Manager with 37 years of field experience as a Mechanical Engineer.	Saturday 12th March 2022	9am - 5pm ZOOM on-line	Managers, Engineers, Technicians, Planners, Schedulers, Reliability and Maintenance Personnel
Zoom-Asset Maintenance Technologies (32 Contact Hours)					
Lectures from the MSc EAM MENG 6701 "Asset Maintenance Technologies"	TOPICS: <ul style="list-style-type: none"> Maintenance and Reliability generic systems Familiarity with Equipment functionality Reliability Centred Maintenance (RCM) Total Productive Maintenance (TPM) Computerized Maintenance Management systems (CMMS) COST:5000 TTD per participant	Mr. Kishore Jhagroo BSc/MSc/CRE <i>Lecturer – UWI</i> Co-Coordinator of the MSc EAM programme Retired Maintenance Manager with 37 years of field experience as a Mechanical Engineer.	26th-27th- 28th January 2022	8am to 4pm ZOOM on-line	Managers, Engineers, Technicians, Planners, Schedulers, Reliability and Maintenance Personnel
Zoom- Details of Work Planning and Scheduling (32 Contact Hours)					
Lectures from the MSc EAM MENG 6702 "Work Planning and Scheduling"	A CONDENSED VERSION OF THE TOPICS: <ul style="list-style-type: none"> The Organization Structure Planning principles Scheduling principles The work order system and the utilization in the Reliability improvement KPI's, Trends, Compliance audits Management Accounting, sustainability and continuous improvement in Reliability and Maintenance COST: 5000 TTD per participant	Mr. Kishore Jhagroo BSc/MSc/CRE <i>Lecturer – UWI</i> Co-Coordinator of the MSc EAM programme Retired Maintenance Manager with 37 years of field experience as a Mechanical Engineer.	Option #1 13 off Mondays From 17th January To 11th April Option #2 9th-10th 11th February 2022	Option #1 5.30pm To 7.30pm Option #2 8am to 4 pm Zoom on Line	Managers, Engineers, Technicians, Planners, Schedulers, Reliability and Maintenance Personnel
Zoom-Condition Monitoring and Diagnostics (32 Contact Hours)					
Lectures from the MSc EAM MENG 6703 "Condition Monitoring and Diagnostics"	A CONDENSED VERSION OF THE TOPICS: <ul style="list-style-type: none"> Vibration Analysis Lubrication Non-destructive Testing-Radiography, Thermography, Ultra-sonics, Dye penetrant etc. Failure Analysis-FMECA, 5-why's, Pareto, Risk Assessment etc. KPI's, Trends, Compliance audits Management Accounting, sustainability and continuous improvement in Reliability and Maintenance COST: 5000 TTD per participant	Mr. Kishore Jhagroo BSc/MSc/CRE <i>Lecturer – UWI</i> Co-Coordinator of the MSc EAM programme Retired Maintenance Manager with 37 years of field experience as a Mechanical Engineer.	Option #1 13 off Tuesdays From 18th January To 12th April Option #2 23rd, 24th 25th February 2022	Option #1 5.30pm To 7.30pm Option #2 8am to 4 pm Zoom on Line	Managers, Engineers, Technicians, Planners, Schedulers, Reliability and Maintenance Personnel