

## LECTURERS

### DR. JEFF JONES

Dr. Jeff Jones is a graduate of Loughborough University in the UK where he graduated in Electronic Engineering and Physics. He also has a Masters degree and a Doctorate in Reliability Engineering. He is currently an Associate Professor at the University of Warwick which is one of the top five universities in the UK where he teaches reliability engineering, maintenance, quality, design and internet business.

Dr Jones is a Chartered Engineer, Chartered Physicist and a Chartered Scientist. He holds memberships of the Institute of Physics (IoP), the Society of Automotive Engineers (SAE), the Institute of Electrical and Electronic Engineers (IEEE), the Safety and Reliability Society (SARS) and is a senior member of the American Society for Quality (ASQ).

Dr Jones is also an active member in the UK and international dependability community. He is a member of the British Standards Institute (BSI) committee in charge of UK dependability standards, and is the convener of and project team leader on the International Electro-technology Committee on Dependability Techniques (IEC TC/56 WG2),

Dr Jones has over 25 years experience of academia and has published over 50 papers in this field in journals and conferences.

### PROFESSOR CHANAN S. SYAN

Professor Chanan S Syan is a graduate of Hull University in the UK where he graduated in Mechanical Engineering. He also has a Doctorate in Design for Manufacture and Surface Treatment and Coating Selection.

## LECTURERS CONT'D

He is currently a Professor of Production Engineering and Management at the University of the West Indies, St Augustine, Trinidad.

Professor Syan is leader of graduate programmes in the department of Mechanical and Manufacturing Engineering and has recently developed the first programme addressing the Engineering Asset Management in the region.

He has over 35 years experience in industry and academia at all levels. He has published over 75 papers in journals and international conferences.

### COST

**TT \$5800 (US \$967) per participant.**

A group discount of 10% (TT\$5220.00 or US\$870) shall be applied for companies that register three (3) or more persons.



### The Engineering Institute

Faculty of Engineering, U.W.I

Tel/Fax No.: (868) 662-6267

or (868) 662-2002 Ext 2175, 2197

Email: [ceec@eng.uwi.tt](mailto:ceec@eng.uwi.tt),

[engin@eng.uwi.tt](mailto:engin@eng.uwi.tt)

Website: <http://www.eng.uwi.tt/depts/ei/>



**ENGINEERING INSTITUTE**  
Faculty of Engineering  
The University of the West Indies  
St. Augustine, Trinidad

*presents*

## RELIABILITY AND DEPENDABILITY IN ENGINEERING MAINTENANCE

8th - 10th February, 2010

Lecture Theatre 3,

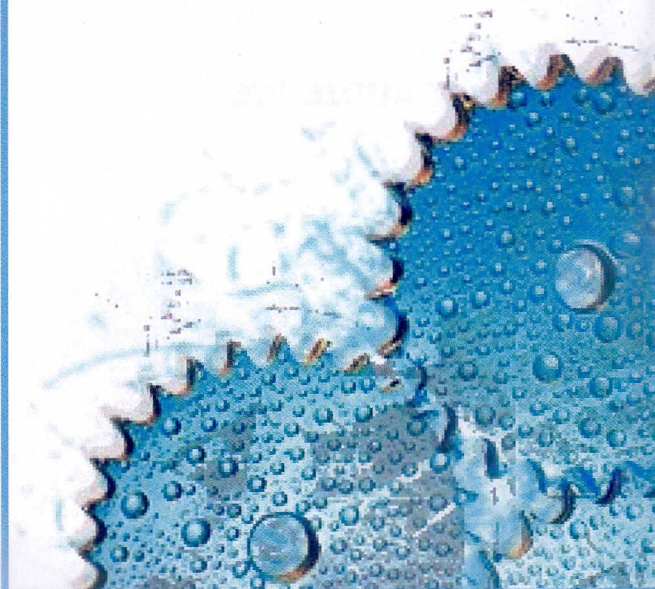
2nd Floor, Block 13,

Faculty of Engineering,

The University of the West Indies,

St. Augustine, Trinidad

Time: 8.30am - 4.30pm





In order to obtain assured operations of complex modern systems it is necessary to use the skills of reliability and maintenance together to achieve maximum user benefit. To achieve this, the engineer needs a basic background in both areas. This course is designed to give the engineer the basic skills of reliability engineering.

## LEARNING OBJECTIVES

At the end of the training, participants will be able to apply some principles of reliability & dependability engineering to problems that they encounter while maintaining systems and processes. The course will give them grounding in reliability analysis that will allow them to work with and communicate easily with reliability professionals.

## TARGET AUDIENCE

- Supervisors
- Engineers
- Managers



## FOCUS TOPICS

- **INTRODUCTION TO RELIABILITY & RELIABILITY METHODOLOGY AND MANAGEMENT**

An introduction to the terminology, underlying principles and techniques of reliability engineering.

- **FAILURE MODE AND EFFECT ANALYSIS**

An introduction to one of the most powerful tools in the reliability toolkit that leads to an understanding of the causes and effects of failure.

- **FAULT TREE ANALYSIS**

An introduction to a powerful tool that allows the user to examine the effect of faults in combination.

- **DATA COLLECTION & DATA ANALYSIS**

An introduction to the concepts that support data collection & analysis and allows understanding, interpretation and prediction based on historical data.

- **INTRODUCTION TO MAINTENANCE**

An overview of the different maintenance practices and philosophies available to support complex systems.

- **RELIABILITY CENTRED MAINTENANCE**

An introduction to the powerful maintenance philosophy that was developed to support complex aerospace systems.

## PRE-REQUISITES

Attendees should have a numerate background and some experience of design or maintenance of complex systems would be useful.

## CERTIFICATE REQUIREMENTS

All delegates who successfully complete the course are awarded a certificate of participation.

## PACKAGE INCLUDES:

Workshop materials  
Lunch and refreshments  
Certificate of Participation

**To register** and for further information, please go to:

<http://www.eng.uwi.tt/depts/ei/>

or contact:

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