

# REGISTRATION FORM



MIMOS  
SEMICONDUCTOR



COMPANY / UNI NAME

ADDRESS

CITY / STATE / POSTCODE

CONTACT PERSON

CONTACT NUMBER

EMAIL ADDRESS

## Details of Participant(s):

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| FULL NAME | DESIGNATION | I/C NUMBER |
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\* Please complete the registration form and email or fax to us

### Training Fees:

RM 3,500 per person

### Payment:

#### Via Cheque-

All cheques should be crossed "A/C Payee" and made payable to "HORIZON 3 SDN BHD"

#### Via Bank Transfer-

Bank: **MAYBANK**

A/C No.: **5147 5830 9640**

### For more information:

**HORIZON 3 SDN BHD** (1137396-A)  
No. 2, Perindustrian Suntrack,  
Hub Perindustrian Suntrack,  
Off Jalan P1A,  
Seksyen 13, Bandar Baru Bangi,  
Kajang, 43000 Selangor

☎ +603 - 7770 8130

☎ +603 - 7770 8130

☎ +6019 - 988 0192 (Mr. Nazly)

✉ nazly@horizon3.my

🌐 www.horizon3.my

### Our Partner:



# Life Data Analysis & Weibull

5th - 7th June 2017

TRAINING

# "Statistical Approach for Failure Prediction and Reliability Improvement"

Every profitable organization emphasizes on cost reduction to asset maintenance, repair and ultimate replacement which is normally translated into to the increase of demand for highly reliable complex systems or assets. Trial and error approach is no longer acceptable as it takes too long and is simply too expensive. Therefore, consideration of probabilistic risk evaluation with greater accuracy is becoming common in failure prediction during equipment operational life.

Life data analysis (LDA) is a process to make predictions of equipment life in a population by assuming a statistical distribution to life data from a representative sample of unit. Weibull distribution analysis, with two and three parameters is a well-established and applicable tool to fit the real-world reliability data and to predict the future failure trend reasonably beyond the available test duration

This 3-day course will equip participants with the basic theory, real understanding of the terminology and useful hands-on application. The course comprises theoretical and practical session with 60% and 40% allocated time respectively. The course objectives and information are as follows:

- Understand some basic reliability engineering concepts and principles related to LDA
- Provide a deeper knowledge on fundamental and application of LDA and Weibull distribution analysis
- Know how to collect and prepare quality failure data for quantifying reliability

## Main Topics

- A) Basic Reliability Engineering Principles Awareness
  - Objectives of Reliability Engineering
  - Concepts, Terms and Definitions
- B) Probability Functions
- C) MTBF & Other Failure Distribution Parameters
- D) Failure Time Distributions
- E) Weibull Distribution
- F) Data Collection
- G) Probability Distribution Plot Steps
- H) Case Studies and Exercises
- I) Accelerated Life Testing (ALT) and Highly Accelerated Life Testing (HALT)

## LDA & Weibull Training Package Includes

- Complete Handouts
- Case Studies
- CD Copy of Training Material
- Certificate of Attendance
- Literatures and References
- Industries Standard and Best Practice
- Morning/ Afternoon Meals and Lunch

## Things to bring

- Participants are encouraged to bring a laptop computer for use during the training.
- Participants may bring their own data for case studies analysis

## Who should Attend?

**TEST** Quality  
**Logistics Reliability** Asset  
Operations **System** Integrity  
Maintenance SAFETY  
**Supervisor / Manager / Specialist**

## ABOUT THE TRAINER

### Name:

Arbaeyah Ismail

### Education:

Universiti Teknologi PETRONAS, Perak, Malaysia  
(BSc. Electrical & Electronics Engineering)

### Professional Experience:

- **Proton Nasional Berhad**; Design Engineer (2004)
- **PETRONAS Carigali Sdn Bhd**; Operation Performance Improvement Engineer (2006-2007)
- **PETRONAS Carigali Sdn Bhd**; Senior Reliability & Maintenance Electrical Engineer (2007-2011)
- **Horizon 3 Sdn Bhd**; Senior Reliability Engineer (2011 - Current)

### Summary of Experience:

- Experienced Reliability and Maintenance Engineer/ Consultant with more than 13 years of solid experience in Operation, Maintenance, Basic Design, Condition-based Monitoring, Reliability Management and Reliability Engineering of Electrical and Rotating Machinery
- Possesses hands-on experience and supervisory of related fields maintenance and reliability works, specifically in oil and gas facilities
- Possesses in-depth knowledge of Root Cause Failure Analysis (RCFA) and common reliability tools i.e. RAM, RBD, LDA, Weibull, RCM and FMEA methodologies
- Conducted various Reliability and Maintenance trainings in Malaysia