



*Results Oriented Reliability and Maintenance  
Management Consulting and Training*



# *Run your plant. Don't let it run you!*

*Optimize your asset preventive maintenance program*

## *Equipment Reliability Training Week*

**March 18-22, 2019  
Raleigh, NC**

By the end of Equipment Reliability Training week, you will have a clear understanding of the Preventive Maintenance strategies that will work for your plant. Your team will learn how to maintain and inspect equipment to improve uptime, get a deeper understanding of how to manage maintenance costs.

Topics include:

- Building a cost-effective Preventive Maintenance process for sustainable results
- Cost control and Asset Management
- Essential Care and Basic Inspection Techniques for Operations and Maintenance
- Infrared, Ultrasound and Vibration analysis techniques and technologies
- Eliminating equipment problems and implementing cost-effective solutions

Space is limited! Bring your operations, maintenance and engineering team members for the most effective implementation of these strategies at your plant, mill or mine!

**Save \$200 when  
you register 5  
or more students!**



**1-800-849-2041  
www.idcon.com**

# Equipment Reliability Training Week Schedule

The Equipment Reliability Training Week combines a carefully selected collection of workshops designed to improve equipment reliability at any process or manufacturing plant.

## Monday, March 18

1:00 pm – 3:00 pm	Building a cost-effective Preventive Maintenance process for sustainable results
3:30 pm – 5:00 pm	Cost control of maintenance

## Tuesday, March 19

8:00 am – 12:00 pm	Developing the right Preventive Maintenance Strategies for your plant
12:00 pm – 1:00 pm	Lunch
1:00 pm – 4:30 pm	Creating a Preventive Maintenance pilot area

## Wednesday, March 20

8:00 am – 10:00 am	I bet an Operator can do that! Operator Essential Care
10:30 am – 12:00 pm	Reliability Engineer, what is your role?
12:00 pm – 1:00 pm	Lunch
1:00 pm – 5:00 pm	Inspection Tools and Techniques. Using Infrared, Ultrasound and Vibration Analysis tools effectively in your condition Monitoring program

## Thursday, March 21

8:00 am – 12:00 pm	Root Cause Problem Elimination for Operations and Maintenance
12:00 pm – 1:00 pm	Lunch
1:00 pm – 5:00 pm	Root Cause Problem Elimination in Action

## Friday, March 22

8:00 am – 12:00 pm	Implementing and Sustaining a Preventive Maintenance Program
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## Training Cost

**\$1,980 per person**

**CANCELLATION POLICY:** Cancellations must be received in via email to [r.kent@idcon.com](mailto:r.kent@idcon.com). A 50% fee will be assessed on all cancellations received by February 18th. After February 18th, 2019, there will be no refunds.

*Want to bring this training onsite?*  
Contact us at 919-847-8764  
to discuss your options.

## How to Register

**Option 1:** Call us at **919-847-8764** ext. **2685** to reserve your space with a Purchase Order

**Option 2:** Register and Pay online at: [www.shop-idcon.com](http://www.shop-idcon.com)

Space is limited to 30 people.

*Register your key operations, maintenance, and engineering team members to achieve the best results at your plant!*



8081 Arco Corporate Drive  
Suite 320  
Raleigh, NC 27617



**800-849-2041**  
[www.idcon.com](http://www.idcon.com)



## Equipment Reliability Training Week, March 18-22

### Monday, March 18

**1:00 – 3:00 (Tor Idhammar, IDCON)**

**1. Building your plant's PM partnership for sustainable results (RORM)**

*1.1 Holistic Reliability and Maintenance System (what is it and how to get it)*

1.1.1 Circle of Continuous Improvements

1.1.2 What is Reliability, capacity, Throughput and Competitiveness

*1.2 Overcoming R & M obstacles*

1.2.1 Leadership improvements and change

1.2.2 Selling improvement initiatives

1.2.3 Why beliefs are critical to R & M success

1.2.4 R & M Strategy; Assess current state, set goals, implementing

*1.3 Partnership Culture*

1.3.1 Vision for Ops and Maintenance

1.3.2 Reliability Partnership

1.3.3 Culture challenges how to face

1.3.4 Workflows and RACI

*1.4 Performance management*

1.4.1 Which KPIs to use and when

1.4.2 Developing a culture of Accountability

**3:30 – 5:00 (Owe Forsberg, IDCON)**

**2. Cost Control & Asset Management**

*2.1 IDCON Beliefs on Cost Control*

*2.2 Maintenance cost types*

*2.3 Factors that drives maintenance cost*

*2.4 Life cycle cost and budget analysis*

*2.5 Budget monitoring and control*

*2.6 How work processes drive maintenance cost*

### Tuesday, March 19

**8:00 - 12:00 (Owe Forsberg, IDCON)**

**3. Developing the right Maintenance Strategies for your plant**

*3.1 Maintenance Strategies overview*

3.1.1 Equipment Criticality

3.1.2 Essential Care

3.1.3 Lubrication standards



- 3.1.4 Condition Monitoring
- 3.1.5 Predictive Maintenance
- 3.1.6 Preventive Maintenance
- 3.2 *How to Document the PM Method*
- 3.2.1 Equipment templates
- 3.2.2 Master data
- 3.3 *Who is going to do the tasks?*

**1:00 – 4:30 (Owe Forsberg, IDCON)**

**4. Creating a PM Pilot Area**

- 4.1 *Which area or equipment to select as your pilot*
- 4.2 *Trial implementation and test practicality*
- 4.3 *Involving crafts and operators*

**Wednesday, March 20**

**8:00 – 10:00 (Michael Lippig, IDCON)**

**5. I Bet an Operator Can do That! Operator Based Reliability and Preventive Maintenance**

- 5.1 *Maintenance operations involvement*
- 5.2 *Inspections & Condition Monitoring Standards*
- 5.2.1 *How to use standards to improve equipment*
- 5.3 *Cleaning/ organization*
- 5.4 *How to report failures/equipment problems*

**10:30 – 12:00 (Christer Idhammar, IDCON)**

**6. Reliability Engineer, what is Your Role in the PM Program?**

- 6.1 *Role/Responsibility*
- 6.1.1 *Equipment design*
- 6.1.2 *Commissioning*
- 6.1.3 *Documentation*
- 6.1.4 *Root Cause Problem Elimination*
- 6.1.5 *Developing Maintenance Strategies*
- 6.2 *Do's and Don'ts of the RE*

**1:00 – 5:00 (Vendor Presentation/demonstration)**

**7. Inspection Tools and Techniques**

- 7.1 *Infrared - Jim Seffrin, Infrasppection Institute*
- 7.2 *Vibration - Ron Kittle, SPM*
- 7.3 *Ultrasonic - Adrian Messer, UE Systems*
- 7.4 *Lubrication- Mike Johnson, AMRII*



**Thursday, March 21**

**8:00 – 12:00, 1:00 – 5:00 (Tor Idhammar, IDCON)**

**8. Root Cause Problem Elimination for Operations and Maintenance**

*8.1 Finding & Prioritizing Problems*

*8.2 RCPE process*

8.2.1 Triggers

8.2.2 Problem Statements

8.2.3 Data Collection

8.2.4 Causes

8.2.5 Solutions

*8.3 Tools*

*8.4 Implementing Root Cause*

*8.5 Root Cause Problem Elimination in Action*

8.5.1 Solving two problems

**Friday, March 22**

**8:00 – 12:00 Owe Forsberg, IDCON**

**9. Implementing and Sustaining a PM program**

*9.1 Final PM Implementation*

9.1.1 Training the team members

9.1.2 Getting acceptance from the organization

9.1.3 PM KPIs

9.1.4 Integrating CMMS with handheld and mobile tools

9.1.5 Communicating the plan

9.1.6 Getting prepared

*9.2 Continuous Improvement*

9.2.1 How often to review your plan (PM routes/inspection routes)