



# MPSC

## Maintenance Planning Scheduling and Control

Join our global industry expert & instructor:  
**John Ross**, and transform your learning experience.



16 Hours Virtual Learning Experience

05– 08 May 2025

09:00 - 13:00 Eastern Standard Time

[www.biiworld.com](http://www.biiworld.com)

## COURSE OVERVIEW:

Elevate your organization's maintenance efficiency and asset reliability with our comprehensive Maintenance Planning Scheduling and Control (MPSC) course. This specialized 16hrs online program is meticulously designed for professionals aiming to enhance their planning and scheduling skills, ultimately driving improvements in maintenance activities and operational performance

In today's dynamic industrial landscape, the ability to effectively plan and schedule maintenance is crucial for minimizing equipment downtime and maximizing the productivity of your workforce. This course and the daily 4hrs sessions will empower you with the knowledge and tools necessary to develop and execute robust maintenance plans that streamline operations, enhance reliability, and ensure that your technicians spend more time executing work than waiting for assignments.

## LEARNING OBJECTIVES:

- **Planning and Scheduling:**  
Gain a deep understanding of the core principles and best practices in maintenance planning and scheduling. Learn how to create systematic approaches that consider the unique needs of your organization.
- **Process Analysis:**  
Acquire skills to analyze existing maintenance processes and workflows. Identify inefficiencies, bottlenecks, and areas for improvement that can lead to enhanced reliability and operational efficiency.
- **Work Plan Development:**  
Learn how to create effective work plans that maximize wrench time for technicians. This includes prioritizing tasks, allocating resources efficiently, and ensuring that maintenance activities align with production schedules.
- **Advanced Scheduling Techniques:**  
Explore advanced scheduling techniques, and methodologies that enhance task prioritization, resource allocation, and real-time adjustments. Understand how to balance maintenance needs with operational demands.
- **Communication and Collaboration:**  
Recognizing that successful planning and scheduling require teamwork, this course emphasizes the importance of communication and collaboration within cross-functional teams. Learn strategies for fostering a culture of teamwork that supports maintenance objectives.
- **Performance Metrics and Continuous Improvement:**  
Understand how to establish and track key performance indicators (KPIs) to measure the effectiveness of your planning and scheduling efforts. Learn how to use data-driven insights to inform continuous improvement initiatives.
- **Case Studies and Real-World Applications:**  
Engage in interactive discussions and case studies that illustrate successful planning and scheduling practices across various industries. Gain insights into the challenges and solutions encountered by leading organizations.



## TARGET AUDIENCE:

### Job Titles:

- Maintenance Supervisors
- Production Supervisors
- Procurement
- Maintenance Storeroom Managers
- Maintenance Planners & Schedulers
- Maintenance Leadmen
- Engineers

### Job Industries:

- Oil & Gas
- Manufacturing
- Facilities maintenance
- Food & Beverage
- Pharmaceutical
- Public transport



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**Instructor:**

**John Ross**

**... your EXPERT TRAINER for this Course.**

John Ross is a Certified Maintenance Reliability Professional (CMRP) and a noted author on the subject of equipment and maintenance reliability. Greatly experienced in a multitude of industries: aviation, aeronautics, manufacturing, transportation, marine, food and beverage, pharmaceuticals, pet food, mining, facilities maintenance, utilities, power generation and distribution, oil, gas, ethanol, chemical plants, and natural gas.

A published author with two Amazon best-selling books: *The Reliability Excellence Workbook: From Ideas to Action*; *Cover You're Assets, Asset Management at Your place and at Your Pace*. The principal instructor for North Carolina State University's Maintenance and Reliability Management (MRM) diploma series.

The seasoned author of numerous magazine publications on the subject of reliability as well as hosting webinars, podcasts, and authoring many relevant blogs. Lead companies in the right direction by working to customize their approach and execution of the fundamentals of good maintenance and reliability. John is a highly sought guest and keynote speaker on all aspects of maintenance and reliability.



# PRESENTATIONS:

## Day 1:

### 09:00 - Pre-Course Intro – Delegate Expectation Briefing

#### Session 1: Philosophy

- Failures are a process
- Inherent reliability
- Responsibilities of maintenance

#### Session 2: World Class

- Define World Class
- Examine metrics and meanings behind world class

#### Break

### Session 3: Continuous Improvement

- Lean
  - ♦ Value added
  - ♦ Non-value added
- Six Sigma
  - ♦ Variation
- Total Productive Maintenance

### Post Session Q & A

13:00 – End of Day 1

## Day 2:

### 09:00 - Delegate Expectation

#### Session 4: Total Productive Maintenance

- History
  - ♦ George Smith | Seiichi Nakajima
- Maintenance Excellence
  - ♦ Preventive & Predictive Maintenance
  - ♦ Storeroom, Planning & Scheduling
  - ♦ Work Order Control & CMMS
- Basic Equipment Care
  - ♦ Operator daily and weekly care
  - ♦ Standards & Visual controls
  - ♦ Defect tagging

- Equipment Improvement
  - ♦ Root Cause Analysis
  - ♦ Group activities
  - ♦ Equipment Improvement Teams
  - ♦ 5-Why
- Equipment Design Excellence
  - ♦ Shop floor involvement & Standardized parts
  - ♦ Documentation, PM list, parts (Bill of Materials), and training
- Knowledge & Skills
  - ♦ Expert On the Job Training
  - ♦ Training matrix
  - ♦ Competency-based & Team-based

#### Break



## Day 2:

### Session 5: Support Systems

- **Equipment numbering**
  - ◆ Purpose, Life Cycle Cost & History
- **Time keeping**
  - ◆ Job cost & Accurate metrics
- **Preventive Maintenance**
  - ◆ Servicing, Installation, and replacement
  - ◆ Calibration, Alignment, Adjustment & Inspection
  - ◆ Lubrication
- **Predictive Maintenance**
  - ◆ Vibration & Lubrication analysis
  - ◆ Infrared inspection & Ultrasonic inspection

### Discussion Exercise – Describe your use and success of the PM and PdM techniques

- **Explanation of an ‘effective’ PM**
- **Five steps of PM development**
  - ◆ What to do
  - ◆ How to do it
  - ◆ What does ‘good’ look like
  - ◆ What to do if it is bad
  - ◆ Safety steps to consider
- **PMO example**
- **CMMS**
  - ◆ Basic purposes, Benefits & Central Nervous System
- **Storeroom**
  - ◆ Service & Convenience

### Discussion Exercise – The Storeroom, What’s wrong with this picture

### Discussion Exercise – The Storeroom, What’s right with this picture

- **Where the storeroom and maintenance connect**
- **The goal of the storeroom**
  - ◆ Right part, Right time, Right quantity
  - ◆ In support of the reliability effort
  - ◆ And the maintenance budget
- **Storeroom processes – 32 processes**
- **Significant metrics**
  - ◆ Inventory: Value, Service Level, Turn Rate & Accuracy

### Discussion Exercise – The Storeroom’s Performance

### Post Session Q & A

13:00 - End of Day 2



# PRESENTATIONS:

## Day 3:

### 09:00 - Delegate Expectation Briefing

#### Session 6: Work Order System/Work Management

- Identify/Prioritize/Approve
  - ◆ Identify and validate work
  - ◆ Work identification & validation
  - ◆ YTT meeting
  - ◆ Priorities – RIME Chart

#### Discussion Exercise – Identify, Prioritize, Approve

- Planning (and spare parts)
  - ◆ Developing job packages
  - ◆ Planning process

#### Case Study – Job Plan Case Study

- ◆ Planner Check List

#### Discussion Exercise – How well does your organization plan work

- Scheduling
  - ◆ Implementing a scheduling process
  - ◆ De-conflicting with operations
  - ◆ Scheduling process | Four-week schedule

#### Discussion Exercise – How well does your organization schedule work

- Assign
  - ◆ Managing Labor and material
- Turnover
  - ◆ Operations to maintenance
- Execute
  - ◆ Autonomous maintenance
  - ◆ Maintenance

#### Discussion Exercise – Execute

- Return to Service
  - ◆ Maintenance ‘back to’ operations
- Document
  - ◆ Documenting completed work
  - ◆ Accurate and detailed documentation
  - ◆ Capturing what was done

#### Discussion Exercise – Document

- Analyze
  - ◆ Data analysis and the CMMS
  - ◆ Comparing actual work with the planned work
  - ◆ Analysis tools
  - ◆ Heat map

#### Discussion Exercise – Analyze

- File
- Institutionalizing tribal knowledge

#### Discussion Exercise – File

### Break

#### Session 7: Key Performance Indicators

- % Planned vs. unplanned, % PM compliance
- % Work covered by a work order, % CM from PM
- % Schedule compliance
- Weeks of backlog by craft
- Inventory: turns, service level & accuracy
- Training hours per craft person | \$\$ per craft person

#### Post Session Q & A

### 13:00 - End of Day 3



# PRESENTATIONS:

## Day 4:

09:00 - Delegate Expectation Briefing

**Session 8: Planning workshop – Create a Job Plan**

- Application Exercise – Create a job plan based on the provided scenario

Break

**Session 9: Scheduling workshop – Create a Work Schedule**

- Application Exercise – Create a work schedule based on the provided scenario

Post Session Q & A

13:00 - End of Day 4 & Course





**Does BII Online Virtual Training have the same value as traditional classroom training?**

Yes, BII Online Virtual Training offers participants; same training system as in-person, i.e face-to-face engagement with instructors, course material, interactive participation of all delegates, and personal support that they would expect to find in a traditional classroom.

**What are main features of your online courses? Are they on-demand? Is it different content from the in-person offering?**

The content of the virtual training is similar to the in-person sessions and customized presentation makes it a richer online learning experience. As always, we will share presentation materials with attendees for later reference.

The online courses are not on-demand and recordings cannot be purchased. They are set on scheduled dates, live with an instructor and co-host via webinar software. While the day is shorter than an in-person session (4hrs vs 8hrs), timing are adjusted to accommodate attendees in different time zones and allow more time for one-on-one conversations via the Q & A.

**What are the technical requirements for participation in a virtual course?**

All you need to participate in virtual training are:

- Desktop or Laptop or Tablet Computer, and Internet connection
- Webcam
- Headset with built-in microphone

**Can I attend an online training session if I have a Macintosh computer?**

Yes, Our Online training systems does allow Macintosh computers, PCs, and computers running Linux to easily enter any of our online training sessions.

**What type and version of browser will I need for online classes?**

It is recommended that you use the latest version of Firefox, Chrome or Internet Explorer for Windows and Firefox or Safari for Mac. Each of these is available for free download and also suggested you have the PDF Reader

**How do I have access to the trainer for questions?**

As in the classroom, you will see the trainer in front of you and have the opportunity to ask questions at any time - all via audio and video transmission.

**Is there a mute option within an online training session to minimize background noise from my audio connection?**

Yes, the Mute button will display to the right of your name as you hover your mouse over your name shown in the Participants panel on the top, right side of the Web conferencing screen.

**What if I miss few sessions of the online training program?**

The training will be simultaneously recorded which will be provided to you as per request & requirement

**Do I get a Certificate at the end?**

Yes, you will get a PDF version of your certificate of completion



Please complete this form and send it back to  
**mithun.siddartha@biworld.com**

**Event Code: OL TE 103**

## Delegate Details

- Name: Mr/Mrs/ Ms .....  
.....  
Job Title: .....  
Email: .....
- Name: Mr/Mrs/ Ms .....  
.....  
Job Title: .....  
Email: .....
- Name: Mr/Mrs/ Ms .....  
.....  
Job Title: .....  
Email: .....

### PAYMENT METHOD:

**CREDIT CARD**

The secured payment link will be shared/sent

**WIRE TRANSFER OR BANK TRANSFER**

### Authorization and Acceptance of Sales Contract & Terms & Conditions

I hereby declare I am authorised to sign this contract and terms  
& conditions in the name of the company/organisation:

## Company/Organisation Detail

Name: .....  
Person to Contact: .....  
Email: .....  
Address: .....  
.....  
City: .....  
Country: .....  
Contact No: .....  
Type of Business: .....  
Website: .....

Name:.....

Date:.....

Signature:.....

**Delegate Fee**  **USD 1199 per delegate**

20 USD administration charge and any applicable withholding or any other tax or fee will be applied

### TERMS & CONDITIONS:

1. Payment terms: BII World LTD requires the full payment of the invoiced amount within 7 working days from the issue date of the invoice. BII World LTD reserves the right to refuse entry to any client who does not pay the invoice in full and on time. The registration fee includes: Training documentation and admission to all training sessions.

2. Cancellation by client: The client has the right to cancel his/her participation in the event. Cancellation must be received by BII World LTD in writing either by mail or fax. If the client cancels the event, he/she will get two options:

- A. CREDIT NOTE:** Choose 2-year credit note, BII World LTD will send all the schedule training event details throughout the year. Delegate has the right to choose and attend any of the training programs (valid 2 years).
- B. NOMINATION:** In this option delegate can nominate/refer someone from his/her group/company to attend the particular training program on behalf of the actual delegate.

3. Cancellation by BII World LTD : While every reasonable effort is made to adhere to the advertised program, circumstances can arise which may cause changes in the program, including but not limited to changes in the content, date(s), or special features of the planned event. Such circumstances include but are not limited to acts of terrorism, war, extreme weather conditions, compliance with government requests, orders and legal requirements, failure of third-party suppliers to timely deliver, and failure to register the minimum target number of attendees for a given event. BII World LTD reserves the right to change the content, date(s), and/ or special features of an event, to merge the event with another event, or to postpone it or cancel it entirely as appropriate under the circumstances. Client agrees that BII World LTD shall not be liable for any cost, damage or expense which may be incurred by client as a consequence of the event being so changed, merged, postponed or cancelled and client agrees to hold BII World LTD harmless and to indemnify BII World LTD in case of liability caused by any such changes, mergers, postponements or cancellations.

4. Cancellation of the event: In case BII World LTD cancels an event, then client can choose any of the below mentioned options:

- (a) BII World LTD will refund full payment to the client within 15 business days.
- (b) Client can choose the credit option for 2 years, for more details please read term no-2 part (a)

5. Postponement of the event : In case BII World Ltd postpones the event to a new date, then client can choose any of the below mentioned options.

- (a) The client can attend the course on the postponed dates.
- (b) Client can choose the credit option for 2 years, for more details please read term no-2 part (a)

6. Client's identification information. By signing of this sales contract and these terms and conditions the client gives full right to BII World LTD to share the client's identification information, i.e. client's name, address, email addresses, phone numbers and names of representatives and website with other clients who participated in the same event. The client has the right to opt out of this clause by written notice to BII World LTD.

7. Governing law: This contract shall be governed by and construed in accordance with the laws of the Province of Alberta, Canada. Any disputes arising under or in connection with this registration form shall be settled before the competent court in Canada.

8. Indemnification: To the fullest extent permitted by the law, you agree to protect, indemnify, defend and hold harmless BII World LTD, its owners, managers, partners, subsidiaries, affiliates, officers, directors, employees and agents, from and against any and all claims, losses or damages to persons or property, governmental charges or fines, penalties, and costs (including reasonable attorney's fees) (collectively "the Claims"), in any way arising out of or relating to the event that is the subject of this contract, and regardless of negligence, included but not limited to, Claims arising out of the negligence, gross negligence or intentional misconduct of BII World LTD employees, agents, contractors, and attendees; provided, however, that nothing in this indemnification shall require you to indemnify BII World LTD indemnified parties for that portion of any Claim arising out of the sole negligence, gross negligence or intentional misconduct of the BII World LTD parties.

9. Other currencies. In case that client requests payment in other than official currency (USD), BII World LTD reserves the right to apply 5% currency risk surcharge to the actual exchange rate.

10. Other Conditions: Any terms or conditions contained in the client's acceptance which contradict or are different from the terms and conditions of this registration document shall not become part of the contract unless individually negotiated with BII World LTD and expressly accepted by BII World LTD.