

Finally! Discover An Amazingly Simple Method
To Win Top-Level Support for Reliability Initiatives with ...

PLANT RELIABILITY

IN DOLLARS & SENSE

**In This 2-Day Seminar,
You'll Learn How To ...**

- Confidently propose and cost-justify new reliability initiatives
- Break down silo thinking and champion reliability vision alignment at all levels
- Clearly link plant reliability to overall company performance
- Quantify the benefits of reliability investments
- Stop reliability budgets from getting slashed
- Help management understand the impact of plant reliability on share price

**Coming to Chicago, IL
June 8-9, 2010**

**Enroll Today: online at Noria.com
or call 800-597-5460**



PLANT RELIABILITY IN DOLLARS & SENSE

Who Should Attend?

- Maintenance Managers
- Plant Managers
- Reliability Managers and Engineers
- Planners and Schedulers
- Operation Managers and Directors
- Production Managers and Directors
- Procurement Support Engineers
- Engineering Managers
- Senior and Mid-level Managers

You'll learn how to ...

- Cut preventive maintenance costs by up to 75% by eliminating unnecessary PMs that fail to add value or even cause failures
- Reduce operations-induced failures by standardizing set-ups, changeovers and adjustments
- Cost-justify, explain, and defend your reliability initiatives
- Design equipment for reliability, maintainability and operability so you can quit "buying" the same problems over and over
- Align your cross-functional team to a common vision and set of goals

WHAT'S HOLDING BACK YOUR RELIABILITY EFFORTS?

Plain common sense says that reliability programs need support from plant and corporate-level managers to succeed. Is a lack of support from management restraining your reliability initiatives?

Plant Reliability in Dollars & Sense teaches you how to quantify the benefits and payback of plant reliability and reveals how to communicate with financial metrics that are impossible for managers to ignore. You'll discover what hot-buttons to push, what you should NEVER say to management, and an effective formula for writing proposals.

YOU'RE NOT ALONE.

Manufacturing professionals around the world hit frustrating roadblocks while championing important objectives like:

- Implementing or improving PdM, TPM, RCM or RCA programs
- Adding reliability engineering and planning and scheduling resources
- Getting approval for desperately needed workforce training
- Getting operators to accept and comply with TPM
- Changing from a reactive to proactive culture
- Getting capital approval for technology and software
- Breaking-down defensive silo mentalities
- Helping operations understand the need for planned maintenance

In this seminar, you'll discover how to pool your resources, rally management and push through your critical objectives.

“RELIABILITY IS THE KEY TO FULFILLING YOUR MISSION AND MEETING YOUR COMPANY’S FINANCIAL OBJECTIVES.”

TENSION BETWEEN PRODUCTION AND MAINTENANCE?

"Can't shut down now!
We've got to keep
it running!"

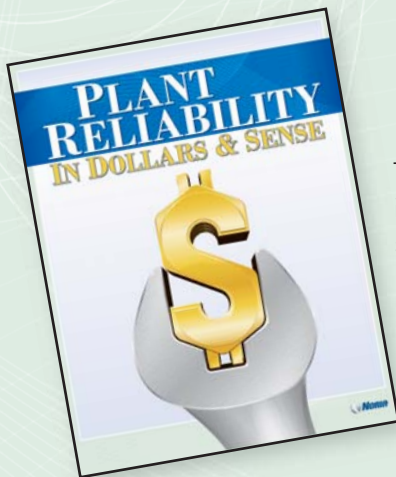
"If we run, it will cost
even more to fix later!"



Does this sound familiar?

Only when management clearly understands the impact reliability has on the bottom line can cross-department dysfunction and resentment be replaced with a cohesive business-centered reliability vision.

YOUR FREE COURSE WORKBOOK AND REFERENCE GUIDE



The Plant Reliability in Dollars and Sense seminar manual.

You will obtain a lot of great information at this seminar – much more than you'll be able to remember on your own. You'll receive a comprehensive workbook to use during the seminar that contains checklists, examples, charts and much more. You'll reference the workbook and the ideas you jot down for years to come.

WHAT ATTENDEES ARE SAYING...



"This information will help my facility turn the page from reactive maintenance to reliability."

*Art DiLullo, maintenance manager,
Coca-Cola Enterprises*

"This seminar will help us effectively communicate the need to increase our reliability efforts in order to achieve our long-term goals and stay competitive during down market performance."

*Rob Bianchin, senior reliability engineer,
Xstrata Nickel*



"Excellent seminar! It will help us solidify our continuous improvement journey by translating reliability efforts into senior leadership language (money)."

*Randy Woolley, manager of asset management,
Kennecott Utah Copper Corp.*

"Connects the concepts of reliability and its impact on business in a marvelous way."

*Pedro Martinez,
Pemex Gas*



"Drew brought a refreshing approach to real-world reliability and maintenance management."

*Jeff Fletcher, maintenance superintendent,
Trinity Rail*

"This seminar could not only transform our plant and company, but could change American manufacturing as a whole for future generations."

*Rod Chandler, production manager,
Temple-Inland*



"Best reliability seminar I have attended."

*Ronald Hickey, maintenance manager,
Aerojet*

"Implementation of these strategies can lead to a reduction of 30 to 40% in our cost of compression."

*Michael Mitchell,
National Gas Company of Trinidad & Tobago*

**ENROLL TODAY! CALL 800-597-5460
OR ONLINE AT WWW.NORIA.COM**

SEMINAR OUTLINE

DAY 1

The Business of Plant Reliability Management

- What corporate and plant leaders need to know about plant reliability
- A clear explanation of how reliability affects the income statement, balance sheet and share price
- How to find profits in the “Commodity Sandwich” and the hidden plant
- How to beat your competitors and satisfy your customers by improving reliability
- How to quantify the benefits of plant reliability
- Creating proposals for reliability initiatives: what works
- Reliability in the economic value-added equation and why the Lean Asset Manager always wins
- The critical connection between lean manufacturing and plant reliability
- How the perception of risk drives reliability investments
- 7 things to focus on when quantifying reliability investments
- How to calculate the risk-based cost of a failure
- How to align operations, maintenance and design to the same vision for plant reliability
- The strategic and functional domains of plant reliability management
- Why you can't just buy reliability, and how to re-engineer your business processes

Plant Reliability Tool Kit

- Why preventive maintenance is not necessarily proactive
- How to build on the foundation of reliability engineering
- How to use Weibull distribution to uncover time dependencies in failure rate
- Foundational strategies for increasing reliability
- Six controllable operational and environmental elements that help extend service oil life
- How to build your standardized taxonomy of failure modes
- Understanding root cause analysis – a proven improvement tool
- How to conduct RCA, and the seven best identification categories
- How to evaluate time to failure, mode by mode
- How to guard against “corporate amnesia” with procedure-based manufacturing
- How plant operating and maintenance procedures drive consistency, continuity and skills management for best practice
- 7 enablers to make “people + systems = success” work
- Three project evaluation methods: when and how to use them
- How to connect skills management to procedures
- Ammunition for getting workforce training proposals accepted
- Unbiased group decision making – it's easier than you think
- Plant reliability management case studies

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SEMINAR OUTLINE CONTINUED

DAY 2

Design for Reliability

- Why poor design results in poor operability and maintainability
- 27-point checklist for designing electrical systems for reliability
- 42-point checklist for designing mechanical systems for reliability
- Ways to stop design teams from compromising reliability, operability and maintainability
- 26 principles of designing for maintainability
- Best practice design for reliability case studies

Operate for Reliability

- How to increase availability with single minute exchange of dies
- How to reduce changeover time and improve production
- Six steps for managing operator alarm systems
- How circadian rhythms affect human performance and operational reliability
- How to use reliability data to estimate the risk of disappointing your customers
- How to estimate the real operating risk for your plant
- Operate for reliability case studies

Maintain for Reliability

- How maintenance really affects productive output
- Eight RCM-based equipment maintenance strategies
- How to use precision maintenance to eliminate failures and ensure success
- The 10 most common precision maintenance pitfalls
- How to optimize the deployment of condition monitoring and condition-based maintenance
- How to power up wrench time with planning and scheduling
- Shutdown metrics: the top six KPIs to monitor
- Maintain for reliability case studies

Creating and Implementing Your Plant Reliability Strategy

- How to create a successful cultural change game plan
- The six most important players to have on your team
- How to survive organization change
- How to combat resistance to change ... and win
- How to assess your strengths, weaknesses, opportunities and threats
- How to make the reliability initiative last
- How to implement metrics for plant reliability management

CERTIFICATION MEANS RESULTS



The Society for Maintenance and Reliability Professionals (SMRP)

SMRPCO is the certifying organization established as part of SMRP's vision to proctor and designate individuals with the Certified Maintenance and Reliability Professional (CMRP) credential. The CMRP is ANSI accredited.

CMRP certification testing will be available immediately following the seminar on the last day. To register for the exam, go to www.smrp.org for more information.

By policy, SMRPCO does not endorse training events as preparation for the CMRP examination.



MEET YOUR INSTRUCTOR

DREW TROYER



Drew Troyer is Chief Vision Officer of Noria Corporation and President of Noria Reliability Solutions. He is a champion of plant reliability and is passionate about helping companies find hidden profits in their plants. He is a recognized expert and industry leader in maintenance and reliability and is a highly sought-after consultant to Fortune 500 manufacturing firms. He has developed dozens of processes and software applications to help companies define their strategic goals for managing plant reliability, economically justifying the plan's elements, and successfully implementing the strategy employing a systematic and properly sequenced method – helping his clients avoid costly mistakes.

As a mentor, Mr. Troyer understands both management expectations and plant-floor realities first-hand. Drawing on his personal plant experiences, he has a unique ability to challenge and teach professionals at all levels. He serves as the principal consultant of Noria Reliability Solutions, Noria's reliability management division, focusing on his technical specialties such as lean reliability, plant operations and financial justification for program deployment, maintenance optimization, general lubrication and oil analysis, training program development, and troubleshooting and root cause failure analysis.

Drew is a Certified Reliability Engineer (CRE), a Certified Maintenance & Reliability Professional (CMRP), holds an MBA, and has completed post-master's graduate study in reliability engineering technology management and measurement theory.

YOUR REGISTRATION FEE INCLUDES A ONE-ON-ONE STRATEGIC PLANNING SESSION FOR UP TO TWO HOURS.

To maximum the value you receive from this course, and further customize the strategies to your unique needs, Drew will sit down with you for up to two hours to help you solidify your thoughts, get an effective strategic plan on paper, and ensure you take home the exact information needed to accomplish your objectives.

These two-hour sessions will take place the day following the course. If meeting on this day is impossible, we'll check Drew's availability for an evening or early morning during the course. You'll be contacted to schedule your session shortly after you enroll. Or, if you wish to pre-schedule your session, please contact Stacey McCauley at 662-890-9392 or smccauley@noria.com.

GOT A GROUP TO TRAIN? LIMITED TRAVEL OPTIONS?

Drew can deliver this seminar at your company or meeting facility of your choice. On-site training is a cost-effective way for you and your team to get this training and start moving your reliability program forward. For more information, contact Stacey McCauley at 662-890-9392 or smccauley@noria.com.

TRAINING REGISTRATION FORM

1 Enrollment Fee

Seminar fee per person: **\$795**

Program hours are from 8:00 a.m. to 4:00 p.m. daily. Registration begins at 7:30 a.m.

2 Name of Attendee and Course You Wish to Attend

(Please list additional registrations on a separate sheet and attach)

Mr./Ms. _____

Title _____

E-mail _____

City/Event Date _____

3 Company Information

(*Phone required in case of last-minute changes.)

Organization _____

Address _____

Mail Stop _____

City: _____ State/Province _____

Country: _____ Zip/Postal Code _____

E-mail _____ *Phone _____

Fax _____

4 Industry Information

(Please check the box that applies)

- | | | |
|---|---|---|
| <input type="checkbox"/> Agricultural | <input type="checkbox"/> General Manufacturing or Other | <input type="checkbox"/> Pulp & Paper, Lumber |
| <input type="checkbox"/> Automotive Manufacturing | <input type="checkbox"/> Government/Military | <input type="checkbox"/> Textiles & Apparel |
| <input type="checkbox"/> Aviation, Rail, Maritime, Trucking | <input type="checkbox"/> Laboratory | <input type="checkbox"/> Tire/Rubber |
| <input type="checkbox"/> Chemicals & Allied Products | <input type="checkbox"/> Mining/Metals | <input type="checkbox"/> Tobacco |
| <input type="checkbox"/> Construction & Allied Products | <input type="checkbox"/> Petroleum Products & Refining | <input type="checkbox"/> Utilities |
| <input type="checkbox"/> Consulting/Services/Training | <input type="checkbox"/> Pharmaceutical | (Electric, Water, Gas, Waste) |
| <input type="checkbox"/> Food Process Manufacturing | <input type="checkbox"/> Plastics & Allied Products | |

5 Method of Payment

(Exams are optional and not included in the course price.
Contact SMRP at 703-245-8011 or smrp.org to make arrangements to sit for the exam.)

Check enclosed payable to:
Noria Corporation

Mail to:
Noria Corporation
ATTN: Training
1328 East 43rd Court
Tulsa, OK 74105

Charge to:



Card Number _____

Expiration Date _____

Name on Card _____

Signature _____

Purchase Order attached: # _____

6 Emergency Contact

Name _____ Number _____

7 Food Allergies (Please list any food allergies so that we can better serve you.)

PLANT RELIABILITY IN DOLLARS & SENSE

2010 Training Schedule

June 8-9

Chicago, IL

Hyatt Regency O'Hare
9300 W Bryn Mawr Ave
Rosemont, IL 60018
800-233-1234 (hotel reservations)
Group Code: Noria

Noria Global Training Calendar

Did you know that Noria offers training in 13 languages in various countries? To see the global training calendar, go to www.noria.com/globalcalendar.

4 Ways to Register for Plant Reliability in Dollars & Sense

If you do not receive an e-mail confirmation within 48 hours of registering for a course, please contact Noria immediately at 800-597-5460, ext. 133.



Phone
800-597-5460
or 918-749-1400



Fax
918-746-0925



Mail
Noria Corporation
ATTN: Training
1328 E. 43rd Court
Tulsa, Oklahoma 74105



Online
www.noria.com