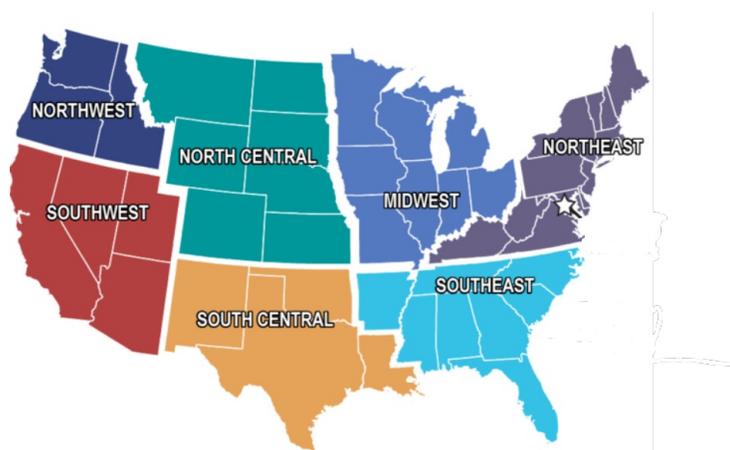


HANDS-ON PRECISION MAINTENANCE TRAINING Coming to a Region Near You!



As gas and diesel prices soar, Hendrix Precision is making an effort to consolidate private classes within geographical areas. Not only will this save our customers money for trucking simulators to and from their site, it's also good corporate responsibility. When we schedule a class, we will first provide you with dates we're "in your neighborhood."

***We're coming to the Northwest!
Summer/early fall 2022!
Save \$thousands\$ on trucking fees!**



PUBLIC CLASS SCHEDULE



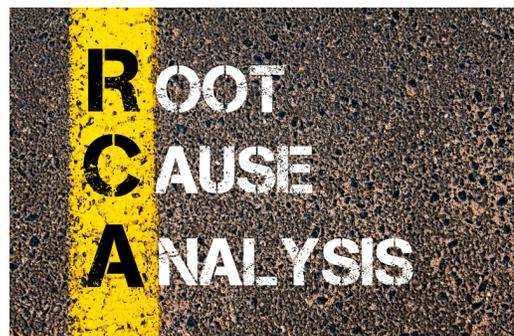
DATE	LOCATION	CLASS	PRICE
JULY 18-21	BEAUMONT, TX	<u>SKILLS 1</u>	\$ 2495.00
AUG 1-4	OMAHA, NE	<u>SKILLS 1</u>	\$ 2495.00
AUG 8-11	SALT LAKE CITY, UT	<u>SKILLS 1</u>	\$ 2495.00
SEPT 12-15	GREENVILLE, SC	<u>SKILLS 1</u>	\$ 2495.00
SEPT 19-22	COLUMBUS, OH	<u>SKILLS 1</u>	\$ 2495.00
OCT 2-6	HOUSTON, TX	<u>SKILLS 1</u>	\$ 2495.00
OCT 24-27	RALEIGH, NC	<u>SKILLS 1</u>	\$ 2495.00
NOV 7-10	DECATUR, AL	<u>BOOTCAMP</u>	\$ 2495.00
NOV 14-17	LAKE CHARLES, LA	<u>SKILLS 2</u>	\$ 2495.00
DEC 12-15	BATON ROUGE, LA	<u>SKILLS 1</u>	\$ 2495.00

[Learn More Here](#)

NEW CLASS ANNOUNCEMENT!!!!

HANDS-ON ROOT CAUSE FAILURE ANALYSIS (RCFA)

Make no mistake, when a failure presents itself in an asset or system we begin working in a reactive state. Whether we're accumulating unplanned downtime and overnight shipping replacement parts from overseas to get things running or planning and scheduling a controlled shutdown and repair we are reacting to what



we are reacting to what

was very likely an avoidable situation. Somewhere along the lines we have failed in the design, installation, or operation of that asset. A bug or a defect has entered the system and generated an equipment failure. We, as a team, have failed. From here, what's our best course of action? What is the consolation prize and how do we get there and celebrate that next best future? How can we learn from the failure? How can we *fail forward* towards preventing this from happening again? The answer, the path forward is to establish the systems, processes, and personnel training to support an effective (actionable/impactful) Root Cause Failure Analysis (RCFA) program.

Hendrix Precision Maintenance, in partnership with The Midwest Reliability Council, is excited to share we are putting the finishing touches on a 4-day, hands-on, root cause failure analysis (RCFA) course. Attendees will gain understanding of the basic tools and concepts associated with industrial equipment failures and root cause failure analysis and will put those tools into practice by analyzing real world failed components. Armed with these vital skills, craftsman and frontline leadership can begin eliminating unscheduled downtime, recapture lost opportunities, and drive-up production rates and profit with their teams at their facilities.



Questions about RCFA Training?
Contact Us Today!

info@hendrixpm.com | (888) 233-9777



From the Desk of Phil Hendrix

**Correction of Frequent Maintenance
Construction Assembly Error**

See anything immediately wrong in the picture to the right?

It is a 5 plus inch Shaft and Pillow-block on a Criticality 1 - Boiler I.D. Fan. If it doesn't run, the plant doesn't run!

And it Failed Frequently Until We Suggested a Simple Correction.

This bearing had an average life of 6 months to a year between random failures for many years. The plant had just "learned to live with it" Sometimes Vibe guys would catch it and schedule replacement, sometimes just sudden failure and downtime occasionally requiring expensive shaft replacement and 2 days downtime. The Bearing always ran hotter than expected 180-200F and the maintenance guys always pumped in more grease #\$\$%!



Hint 1: I must admit, although I have preached and preached, I have failed miserably to get mechanics, engineers, and M&E mgrs. to understand, CAST IRON Housings are flexible, especially when submitted to multi hundred, even thousand-pound loads like fan rotors.

ROOT CAUSE?: Just to cut to the chase: The Bearing Housing is flexing under load and "*pinching*" the outer ring because it is incorrectly shimmed. Just a few thousandths of an inch, pushing down on the outer ring of the bearing which is, as every bearing engineer will tell you, EXTREMELY FLEXIBLE and immediately takes the shape of the housing under load. In this case the Ring responds in the only direction it can, pushing down on the "few" thousandths of clearance inside the bearing and reduces that clearance, causing accelerated wear, heat, you get the idea. Very Bad! Very Bad! Why is that Occurring?

[Continue Reading...](#)

Here we **GROW AGAIN!**

We Welcome **Eric Foreman** to the Hendrix Team!



ERIC FOREMAN

Customer Operations Executive

Eric joins Hendrix with 18 years of automation & control, maintenance & reliability engineering, as well as technical standards & training program development in the food and beverage industry. He has an unparalleled passion for continuous improvement and waste reduction driven through

optimization of systems and processes by equipping and empowering people to do their best their best work. From his early years in industrial automation Eric has worked under the guiding principle to *make the hard things easy and keep the easy things easy*.

Eric graduated from Central College in Pella, Iowa with bachelor's degrees in Accounting Information Systems and Business Management. During a summer internship spent developing and implementing a Lock-Out-Tag-Out program at Burke Corporation (Hormel) in Nevada, Iowa, he stumbled into a career in industrial maintenance and reliability. Upon completion of the internship, Eric accepted a role as a PLC technician and spent the next several years working in various automation and process control system engineering roles. He then moved on to safety, technical standards & training, and M&R program development and management.

Eric is an active member in the Midwest maintenance and reliability community serving two years as the SMRP NE/IA Chapter Education and Communication Director and recently being elected Chapter Chair. He holds CMRP, CMRT, and CRL industry certifications and actively participates in SMRP National workshops in support of the CMRP and CMRT certification development.

Eric and his wife, Amanda, met while both were playing for local Rugby clubs in Cedar Rapids, Iowa. They've both stopped playing but continue to support the local club and high school teams. Eric, Amanda, and their three children enjoy spending free time outside, hiking, bike riding, camping, and swimming. They regularly vacation in Colorado and Northern Minnesota/Wisconsin.

Hendrix welcomes Eric to its team!

SAVE THE DATE!



**Visit Hendrix at
Booth # 436**

JOIN US AT THE
2022 RELIABLE PLANT CONFERENCE

JULY 25-28, 2022
Orlando, FL

JOIN US



Workshop & Hands-On Demonstration

JULY 25TH 8:30 AM - 11:30 AM

Exponentially Improving the Life of Rotating Equipment

Presented by:

Mike Turrentine
Instructor / Field Reliability Specialist



Rob MacArthur
Directing Manager / Partner



**Stay tuned for additional information on our
UPCOMING EVENTS!**

October 25-28 - 2022 SMRP Conference - Raleigh, NC

December 6-8 - 2022 IMC - Int'l Mtce Conf - Marco Island, FL

www.HendrixPrecisionMaintenance.com

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