

PMPA

PRECISION MACHINED PRODUCTS ASSOCIATION



MASTERY PROGRAM

Broader vision, deeper understanding, smarter problem-solving™

Broader vision

See where your raw materials are made, understand the processes upstream that affect the processes in your shop.

Deeper understanding

What you don't know can stall your operations. What does your team NOT know about their ENTIRE SUPPLY CHAIN?

Smarter problem-solving

How much time can you waste waiting for a report from your supplier to come back and say, "material meets spec?" Having your in-house personnel familiar with supplier processes will give them the confidence to address root cause now instead of waiting to win the "Supplier accepts the blame lottery."

TOUR/EXPERIENCE

- 4 PMPA member shops
- 4 steel mills
- 1 brass mill
- 1 stainless and nickel bar and wire mill
- 1 copper and bronze mill
- 1 tool maker
- 1 machine tool builder/distributor
- Ford F-150 Assembly Line
- Precision Machining Technology Show!

RECEIVE

- Instruction from industry expert, Miles Free
- Two books filled with invaluable reference materials (see next page for details)
- Unparalleled experience and exposure to the precision machining supply chain!

WHO SHOULD ATTEND?

Engineers, machinists, purchasing agents, operations, owners.

If the people responsible and having the authority to solve problems are more knowledgeable about their sources and their processes, they can use their judgement to better understand the likelihood and unlikelihood of the issues they face being due to a supplier, or in their own process.

The new PMPA Mastery Program consists of three bus tours.*

Cleveland Tour 1

Aug 10, 2021 @ 11:30p to
Aug 11, 2021 about 7:00p

Presentation from Charter Steel
Precision Machining Technology
Show (PMTS)
Fischer Special Tooling Corp.
Northlake Steel Corporation
Absolute Machine Tools
Concast Metal Products

Detroit/Toledo Tour 2

March 30, 2022 @ 8:00a to
March 31, 2022 about 7:30p

Hercules Drawn Steel
Eaton Steel Bar Co.
Stainless and Aluminum, Inc.
Ford F-150 Assembly Line
Vanamatic Company
Wieland Chase

Milwaukee/Chicago Tour 3

May 3, 2022 @ 12:00p to
May 4, 2022 about 6:30p

Nucor Cold Finish
Precision Plus, Inc.
Tri Star Metals, LLC
Corey Steel
Camcraft, Inc.

* Though every effort to has been made to solidify the schedule, PMPA has the right to make changes to the destination list for the Mastery Program with or without notice. PMPA will make every effort to find suitable replacement destinations and notify attendees as soon as reasonably possible.

EMPOWER YOUR TEAM WITH SYSTEM KNOWLEDGE

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WHAT WILL YOU EXPERIENCE?

Absolute Machine Tools

How your job requirements become inputs to providing the right technology including system integration for economical parts production.

Camcraft, Inc.

Best practices. Critical high precision, high value manufacturing and best practices for system integration.

Charter Steel (presentation - no on-site visit)

Integrated electric furnace steelmaking, continuous casting and rolling into SBQ bar and rods.

Concast Metal Products

Manufacture of continuous cast copper alloy bars, rods and tubes, quality control methods, and inventory.

Corey Steel

Process for cold drawing and finishing steel bars.

Eaton Steel Bar Co.

Steel heat treatment processes (quench & temper) and lab testing.

Fischer Special Tooling Corp.

Both manual and CNC toolmaking technologies; what does 'toolmaking' look like from the supplier's side?

Ford F-150 Assembly Line

Precision machined parts in assembly. End of supply chain.

Hercules Drawn Steel

Process for cold drawing and finishing steel bars.

Northlake Steel Corporation

Rough turning, centerless grinding, cold drawing, straightening, demagnetizing, and mark pack and ship of cold finished steel bars.

Nucor Cold Finish

Process for cold drawing and finishing steel bars.

Precision Plus, Inc.

Best practices. Highest precision Swiss leading technology committed to work-force development shop.

Stainless and Aluminum, Inc.

Stainless and aluminum bar products - lot control, inventory and shipping practices.

Tri Star Metals, LLC

Production of cold drawn stainless, nickel and aluminum bar, cold heading steel, nickel and stainless wire.

Vanamatic Company

Manufacturing/engineering, chip processing/shipping, tool room/maint process, quality control. Intelligent management and rational work rules can make a difference.

Wieland Chase

Integrated brass melt shop, caster, processor for leaded and eco-brass materials. See what happens to the chips you return to the mill.

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TWO BOOKS PROVIDED TO EACH ATTENDEE

Craftsman Cribsheet Collection

A collection of Craftsman Cribsheets

What You Should Know: STEEL by Miles Free, III

This valuable book includes critical information for What You Should Know about steel grade system, bar straightness, bar handling, surface imperfections and stock removal, effect of austenitic grain size, carbon, sulfur, nitrogen, nickel, phosphorus, feed vs speed, cold work, benefits of cold drawing, lamellar pearlitic annealing, spheroidize annealing, stress relieving, mechanical properties, effect of sulfides on transverse mechanical properties, difference between hardness and hardenability, case hardening of free machining grades, and roundness, concentricity and lobing. AND MORE!!!

REGISTRATION - SEATING IS LIMITED!

- Registration is limited to PMPA Manufacturing Members.
- A maximum of two PMPA Manufacturing Member employees per company may participate.
- Registration is not transferrable — to benefit from the program, the same person must attend all three tours.

Registration fee includes:

- Instruction from Miles Free
- All three tours: Milwaukee/Chicago area, Detroit/Toledo area and Cleveland area
- Tours on all scheduled stops
- Hotel room for overnights on March 30, 2021 and May 3, 2021
- All meals and snacks
- Two books exclusive to the Mastery Program: *The Cribsheet Collection* and *What You Should Know: STEEL*
- Personalized hard hat
- Safety glasses or safety shields for eyeglasses
- Mastery Program backpack/messenger bag

FEE

One Member Employee	\$2,000
Two or more Member Employees	\$1,500 each

Registration fees will be refunded in full (minus a 10% administration fee) if cancellations are received by 5:00pm July 1, 2021. Fees for cancellations cannot be refunded after July 1, 2021.

Overnight rooms (Aug 10, March 30 & May 3) are part of the registration fee. Room blocks with event rates are available for:

- Hilton Downtown Cleveland, Marriott Key Center and Westin Downtown Cleveland. (Same Cleveland hotels for NTC/PMTS 2021)
- Sheraton Detroit Metro Airport for March 29 & 30, 2022
- The Pfister Hotel May 2 & 4, 2022

PMPA Mastery Program 2021-2022 Registration Form

SPACE IS LIMITED! FIRST COME, FIRST SERVED.

FEES

One Employee \$2,000
Two or more Employees \$1,500 each

COMPANY INFORMATION

Company Name _____

Address _____

City _____ State _____ Zip/Postal _____ Phone _____

FIRST EMPLOYEE

Name _____

Title _____

Cell phone (for use while travelling) _____

Any special needs physical or dietary?

SECOND EMPLOYEE

Name _____

Title _____

Cell phone (for use while traveling) _____

Any special needs physical or dietary?

PAYMENT

One Employee	\$2,000
or	
Two or more Employees	\$1,500 each
Total Due	\$ _____

**Send completed registration form with
check payable to PMPA to:**

PMPA Billing
1651 Crossings Parkway
Westlake, Ohio 44145

**Or complete online
at pmpa.org to use credit card.**

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