



MWFA



Mid-West Fastener Association

Where Education is a Priority

Essentials of Metallurgy, Heat Treating and Plating

May 10, 2018

Taught at Morgan Ohare/SWD Inc. – Addison, IL

Essentials of Metallurgy, Heat Treating and Plating is taught at two different facilities to facilitate “Hands on Teaching.” This Intermediate Class includes training in various topics, as listed below, by industry experts.

- Metallurgy Fundamentals
- Basics of Heat Treatment - Fasteners
- Electroplating
- Zinc Electroplating
- Zinc-Nickel Electroplating
- Trivalent vs. Hexavalent Post Treatments (Conversion Coatings)
- Sealers, Torque Modifiers and other Post Treatments
- Baking of Parts – Hydrogen Embrittlement
- Do's and Don'ts of Strip and Re-Plate
- Pre-treatments
- Importance of RoHS and Reach
- Passivation of Stainless Steel
- Black Oxide and Zinc Phosphate
- Dip Spin Organic Coatings
- Popular Automotive Finishes
- Plating on various substrates

Anyone selling or purchasing fasteners should have a comprehensive knowledge of Metallurgy, Heat Treating and Plating to best serve customers with proper product. This is a very detailed oriented industry and often it's the details which could make or break your future with a customer. The best instruction for these topics is to see the processes in action at these world class facilities.

When: May 10, 2018

Hours/Location: 9:00 a.m to 10:30 a.m. Morgan Ohare
701-735- Factory Rd., Addison, IL 60101 (630-543-6780)
10:30 a.m. to 3:00 p.m. SWD Inc.
910 S. Stiles Dr., Addison, IL 60101 (630-543-3003)

***Fee:** \$200 MWFA Members \$250 Non Members
(Lunch included in fees)

Please fill in registration form located on reverse side.

REGISTRATION FORM – Essentials of Metallurgy, Heat Treating and Plating Seminar

May 10, 2018

To register, send \$200 (MWFA Members) or \$250 Non Members.
Three or more company participants, in this class, may take a 10% discount.

Please make extra copies of this form for additional registrants

Name & Title: _____

Years in Fastener Industry: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____ Fax: _____

Email: _____

Check Enlosed _____ Invoice Us _____ Bill credit card: MC _____ Visa _____ AmerExp _____

Card No.: _____ Exp. Date: _____

Signature: _____

Complete and return by May 3rd.

***Please make checks payable to: Mid-West Fastener Association
P. O. Box 5, Lake Zurich, IL 60047
847-438-8338 800-753-8338 Fax 847-438-7580
mwfa.net***