

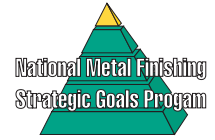
# Workshops for Metal Finishers

## Achieving the Metal Finishing Performance Goals

Wednesday, December 6, 2000

8:00 AM to 3:00 PM

### Save Money and Reduce Waste!



### Presented by:

U.S. Environmental Protection Agency Region III, Waste Minimization Team and the Pennsylvania Department of Environmental Protection.

### Description:

This workshop is designed to help metal finishers achieve the metal finishing performance goals. The performance goals focus on reducing water use, energy use, and sludge generation as well as improving metals utilization and waste water treatment. Achieving the goals has many benefits to workshop participants. EPA Region III is conducting two workshops in Pennsylvania. The first workshop will focus on achieving Metal Finishing Performance Goals with Waste Minimization and the second workshop is an interactive exercise will be held at a host metal finishing facility. This workshop is sponsored by the Metal Finishing Strategic Goals Program (SGP).

### This Workshop is for the Following People:

- ◆ Shop managers
- ◆ Environmental compliance staff
- ◆ Pollution control engineers
- ◆ Process line supervisors
- ◆ Line operators

### This Workshop is Free!

As an introduction to the Strategic Goals Program this workshop is free. Future workshops will have a fee for non-SGP members.

### Workshop Topics:

- ◆ Understanding Process Efficiency
- ◆ Measuring and Controlling Dragout
- ◆ Optimizing Rinsing Operations
- ◆ Case Studies

### Location:

Boeing Philadelphia  
Stewart Avenue & Rt. 291  
Ridley Park, PA 19078

### Schedule:

8:00 a.m. - 12:00 p.m.	Workshop
12:00 p.m. - 12:45 p.m.	Lunch (provided)
12:45 p.m. - 3:00 p.m.	Tour of Plant

**Note:** This workshop is open to U.S. Citizens *ONLY*. All registrants must supply proof of U.S. Citizenship (copy of birth certificate, passport or voter registration card) at the time of registration.

*For additional information on this and other upcoming workshops, call  
Tad Radzinski of EPA at (215) 814-2394.*

## Advance Registration Required

Fax Reply and Proof of U.S. Citizenship by 4:00 PM Monday, **NOVEMBER 20, 2000**,  
(215) 814-3113 or Email: radzinski.tad@epa.gov

By \_\_\_\_\_ Company \_\_\_\_\_

Phone \_\_\_\_\_

Names of Attendees \_\_\_\_\_

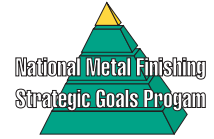
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# Workshops for Metal Finishers

## Best Practices for Metal Finishing Line Operators Workshop

Wednesday, December 6, 2000  
3:00 PM to 7:00 PM

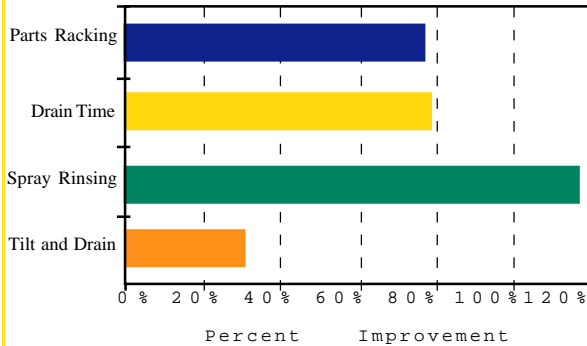
*Do your platers and anodizers understand how their actions are affecting your raw material use, waste generation, and bottom-line profits?*



### Description:

Excessive dragout reduces process efficiency, increases chemical use, causes bath contamination, and increases waste generation. Plating line operators play a critical role in the amount of dragout generated. Training these workers, however, is a constant challenge and good operating practices are hard to teach. This workshop addresses this challenge through a "hands-on" training where good operating practices will be demonstrated and their effects on dragout reduction, wastewater conservation and process efficiency will be measured. By attending this training on dragout reduction, your workers will better understand how their plating techniques affect wastewater generation and your business' profits. This workshop is designed for rack platers and has been successfully delivered across the country!

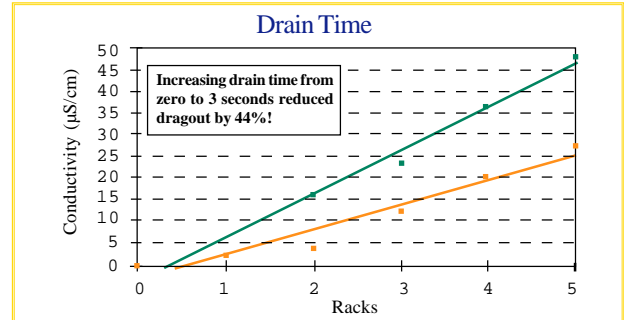
### Dragout Reduction and Rinse Quality Improvement



*Attendees will measure rinse quality results from different operating practices*

### Topics to be Covered:

- ◆ Withdrawal rate
- ◆ Proper racking
- ◆ Hang time
- ◆ Spray systems
- ◆ Drain techniques
- ◆ Effective rinsing



*Attendees will measure actual dragout rates of different operating practices*

### Attendees will:

- ◆ Compare and contrast good and bad operating practices
- ◆ Receive hands-on training that demonstrates best operating practices
- ◆ Measure and quantify their impact on dragout
- ◆ Determine the effects of dragout on raw material use and waste generation rates
- ◆ Calculate cost savings associated with modifying line operator practices

### Facility Operating Costs Associated with Dragout

- ◆ Process chemical use
- ◆ Rinse quality and rinse water use
- ◆ Treatment chemical use
- ◆ Treatment system O&M
- ◆ Sludge generation

**Note:** This workshop is open to U.S. Citizens *ONLY*. All registrants must supply proof of U.S. Citizenship (copy of birth certificate, passport or voter registration card) at the time of registration.

*The workshop will be held at Boeing Philadelphia, Stewart Avenue & Rt. 291, Ridley Park, PA from 3:00 p.m. to 7:00 p.m. For additional information on this and other upcoming workshops, call Tad Radzinski of EPA at (215) 814-2394.*

## Advance Registration Required

Fax Reply and Proof of Citizenship by 4:00 PM Monday, **November 20, 2000**,  
(215) 814-3113 or E-mail: radzinski.tad@epa.gov

By \_\_\_\_\_ Company \_\_\_\_\_

Phone \_\_\_\_\_

Names of Attendees \_\_\_\_\_

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