



Metal
Manufacturers & Finishers
Green Certification

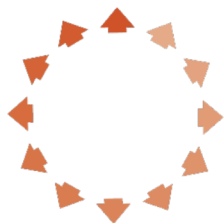


Part of a cooperative
Agreement
Form the U.S. EPA



Training and Technical
Assistance
By
Zero Waste Enterprises, LLC

Acknowledge Course Sponsors



NEVADA
Industry Excellence
"YOUR STRATEGIC GROWTH PARTNER"



NATIONAL POLLUTION
PREVENTION ROUNDTABLE



Schedule - Wednesdays 9am-10:30am (PT)

Introduction to Metal Finishing Environmental Certification

Week 1: Introduction - "Finding the Hidden Profits in Environmental Stewardship"

Week 2: Success Stories - "Real World Examples from the Metal Manufacturing Industry "

Successful Metal Manufacturing Environmental Practices

Week 3: Best Management Practices for Metal Finishing

Week 4: Best Management Practices for Cutting Fluids and other issues - "More Metal Manufacturing Best Management Practices"

Lean and Environmental Training for Metal Finishing

Week 5: Solvent Issues - "Safer Alternatives in Solvent Applications for Metal Processing"

Week 6: Lean Manufacturing Techniques - Using Lean Manufacturing to uncover opportunities.

Week 7: Lean Practices and Success Stories

Final Course: October 6, 2021

- ▶ **Lean Practices and Success Stories**
- ▶ Building on Week 6, this talk will dive deeply into the processes businesses use to identify lean projects, prioritize their activities and build support within the company.
- ▶ We will also discuss what's next including elective courses.
- ▶ Presenter: Thomas Vinson, Zero Waste Enterprises





The Metal Manufacturing Environmental Certification Program

GOOD FOR BUSINESS
GOOD FOR ENVIRONMENT

Goals of the Certification Program

- Reduce costs & increase profits
- Improve productivity
- Reduce non-product output
- Reduce water, energy, & raw materials
- Get out of Regulation World

Certification Benefits

- ▶ Free Training
- ▶ Free consultation
- ▶ Proven techniques
 - ▶ More profitable
 - ▶ Lean and efficient operations
 - ▶ Improved teamwork
 - ▶ Lower risk
 - ▶ Greater public image
 - ▶ Good for the environment

Up to 20 Hours
of No Cost
Consultation

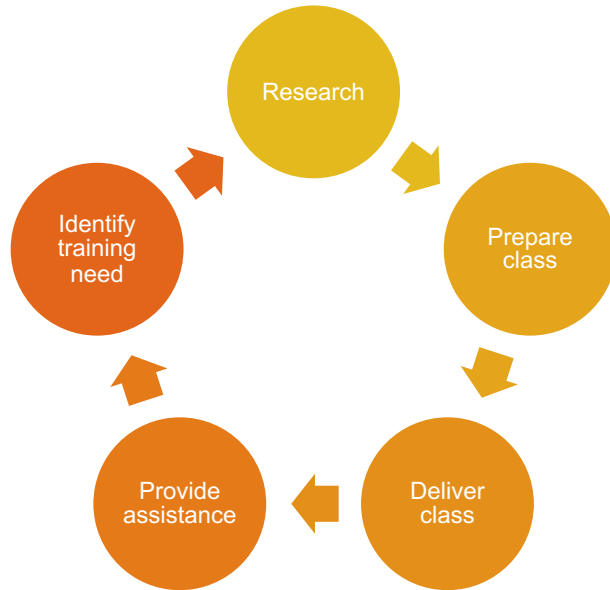
Metal Manufacturer

Environmental Certification Requirements

- **Complete the first 7 courses – 11 hours**
 - **Introduction to Environment for Metal Finishing Operations (two courses 3 hrs.)**
 - **Best Management Practices (5 hr)**
 - Metal Finishing BMP
 - Cutting Fluids and Other Issues
 - Solvent waste solutions
 - **Lean (and green) Manufacturing (Two courses 3 hrs.)**
- **Complete 3 elective topics – 6-9 hours (variable)**
- **Have a project plan – 8 hours (variable)**
- **Participate in a follow up interview.**

Our Process:

Base the Training on needs identified



Certification Program Overview

Electives

- **Advanced Techniques for Metal Finishing Operations** – Specific techniques used by other businesses and how to adapt them to your business
- **Risk Management Systems** – How to ensure that accidental releases and other risks are managed.
- **Employee Training and Awareness** – methods for ensuring employees are safe and aware of environmental risks.
- **ISO Certification** – How to win a certification required for many suppliers.
- **Sustainable business practices** – Long term business practices, and how to react to shifting markets.
- **Improving Profitability with Full Cost Accounting** – Finding hidden costs to guide future investments and reduce overhead waste.
- **Advanced Lean** – detailed guidance on lean techniques
- **Green Marketing for Suppliers** – How to market your environmental program to an OEM.
- **Custom courses** may be available based on your business needs.

Upcoming Elective Trainings

- **October 27, 2021 - ISO Certification** – How to win a certification required for many suppliers.
- **TBD - ISO 14001 (followup)**
- **December 8, 2021 - Green Business Certification for Metal Finishers** – New checklist designed for the California and Nevada Green Business Certification Programs.
- **New courses will be placed on the landing page. Details and links will be emailed to you.**