

Application for Certification & Technical Assistance The Metal Manufacturing & Finishers Environmental Program

Following the steps in this application process will help you examine options to reduce pollution at its source for increased profitability, opening new markets and lower risk. If you submit this application by December 31, 2022 the GreenUP! team will review your application, conduct a brief interview and issue your certification.

Certification Requirements

1. Complete the course work
 - Required Topics
 - Introduction to Environment for Metal Finishing Operations
 - Metal finishing techniques to reduce environmental risks
 - Lean (and green) Manufacturing
 - Complete elective topics – (variable)
 - Have a project plan – (variable)
 - Participate in a follow up interview
2. Complete this application
3. Complete a project
4. Follow up interview

Why Certification?

- It's free.
- Application guides you through a process that has worked for hundreds of facilities.
- You know you are getting the crucial course.
- It could lead to future recognition and awards.
- The certificate sends a message to people you do business with.
- It's useful for professional training requirements. (e.g. professional certification).
- The project will have real impacts on your business and the environment.
- You can get ahead of market and environmental issues before they reach a point of crisis.

APPLICATION

Complete this page and email tvinson@zerowastecorp.com for review. Applications and technical assistance will be offered through Dec. 31, 2022. After that we may, on a limited basis, offer further assistance.

- Please allow two weeks for Review.
- Additional pages are optional, but recommended to help you develop a project.

Required Courses

You may complete the video courses at any time by going to:

<https://lp.constantcontactpages.com/cu/S5D3OGh>

Please enter the date you completed the following courses

Date Viewed Course Name

_____	Finding the Hidden Profits in Environmental Stewardship
_____	Real World Examples from the Metal Manufacturing Industry
_____	Best Management Practices for Metal Finishing
_____	Using Lean Manufacturing to Uncover Opportunities
_____	Lean Practices and Success Stories

Optional Courses

Date Viewed Course Name

_____	Best Management Practices for Cutting Fluids and other issues
_____	Safer Alternatives in Solvent Applications for Metal Processing
_____	ISO - Risk Management and Customer Retention
_____	Green Business Checklist for Metal Finishers

Project Description – Describe your project in a sentence or two

Guidance for Making the Project

The most important part of the application process is to complete one project applying the lessons of the videos you viewed. What you do is up to you, but all projects should be designed to

1. Reduce pollution at the source.
 - a. Recycling projects are not considered source reduction.
 - b. Reuse of materials may count. (see first presentation for more information)
2. Have measurable outcomes that result in a beneficial change to the environment.

The following process is suggested, based on our experience with other businesses.

Step 1: Identify an Environmental Waste You Wish to Reduce. The first two required videos and the lean videos give guidance on prioritizing the problem you wish to solve. For instance, you may create a value stream map or review an EMS, aspects and impacts assessment. You may review regulatory burden, supply chain pressures, costs of materials or risks of accidental discharge. Pick a project that will address *your needs* as a company.

Step 2: Identify a technique based on the presentations or a technique you want to use (e.g. 6 sigma) that will result in source reduction.

Check all that apply	Technique	For more information
<input type="checkbox"/>	EMS/ISO	Week 1: Finding hidden profits Week 8: ISO and Risk management
<input type="checkbox"/>	Process Mapping Value stream mapping	Week 2 : Real World Examples Week 2: Real World Examples
<input type="checkbox"/>	Solvent substitution	Week 4: Cutting fluids Week 5: Safer Alternatives
<input type="checkbox"/>	Implement a best management practice (BMP)	Week 3: BMPs Also info in Week 1 and 2
<input type="checkbox"/>	Implement a Lean Technique	Week 6: Lean
<input type="checkbox"/>	Implement a P2 Practice	Week 7: Lean Success Stories Week 1: Finding hidden profits
<input type="checkbox"/>	Green Business Practice	Week 2 : Real World Examples
<input type="checkbox"/>	Other Technique	Week 9: Green Business Certification Please Describe

Step 3: Implementation: Break the project down into steps (usually 3-5).

Example Project:

November 2021 Review solvent alternatives list from Week 4

December 2021: Work with procurement

Jan-Feb 2022: Train workers in use and differences

July 2022: Evaluate cost and effectiveness (repeat as needed)

Step 4: Determine Measures

Remember you are NOT measuring the amount of pollution generated. You are measuring the amount that would have been generated if an action had not been taken. We can help you with measures during the interview and application process.

Measures should not:

1. Be the result of a business slowdown or shut down. However, if you evaluated and made a fundamental change to your product, it may count.
2. Be Recycling, which includes sending it off site for extensive processing. In process reuse, or finding a market for the material as is would count as recycling. Contact us if you have any questions.

Measures you may consider are:

- Pounds of hazardous solvent reduced
- Gallons of water reduced
- Electricity reduction
- Air Emissions avoided
- Gallons of solvent reused

Submit project application to: donna.walden@mac.com and cc: tvinson@zerowastecorp.com

Questions? Send an email tvinson@zerowastecorp.com and we will call you or reply by email as appropriate.

WORKSHEET FOR POLLUTION PREVENTION PROJECT

This optional form will help you consider your project and get feedback. We will discuss your progress and look for ways to boost performance during our review, and work with you during the follow up interview. This sheet will help your reviewer give the best advice. However, if you have your own format, it is better to stick with existing company templates.

Step	Note	Reviewer Comment
Waste(s) identified		
Project technique		
Schedule		
Measures		