



**PRO ENVIRO**

**AUTOTRAIN CODESIGN**



**AutoTrain**



THE UNIVERSITY OF BIRMINGHAM

## DESIGN FOR THE ENVIRONMENT TRAINING

Improving the Design and Development Capabilities of SME Automotive Suppliers in the West Midlands



**Design for the Environment is making an increasingly important contribution to reducing environmental impacts throughout the product life-cycle.**

**Vehicle manufacturers and suppliers share responsibility for compliance with environmental legislation. Improving Design for the Environment (DfE) capability amongst suppliers will help anticipate and respond to growing customer demands for enhanced environmental performance.**

To enable the automotive supply chain to improve its overall effectiveness and increase its competitive edge the CoDesign project provides real support and benefits to SMEs in the West Midlands.

### WHY DESIGN FOR THE ENVIRONMENT?

Like all product and process costs, environmental impacts are determined early in product or process design phases when specifications are agreed and there is an opportunity for suppliers to influence the product and its design. Integrating cleaner design for the environment into everyday working practices enables companies to improve environmental performance along with the products functional performance and value.

Proactive companies in many sectors have successfully implemented cleaner design processes and have reduced production costs while maintaining competitiveness and future proofing against legislation.

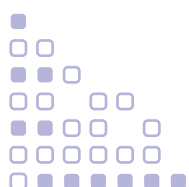
As pressure continues to mount at the governmental level, the major OEMs are compelled to adopt new environmental strategies which will influence those companies who wish to remain within the automotive supply chain. Without a commitment to reducing environmental impacts to run alongside the traditional QCD performance measures, suppliers will not be able to compete for new business with the OEMs.

Design for the Environment is being approached from many angles and is being driven by many issues, e.g.; legislation, supply chain demands and the potential savings from waste minimisation & resource efficiency.

Do you need to do more to address your customers' environmental concerns?

Could you reduce waste at source through improving your product design for the environment, saving resources and money?

Are you overlooking any End-of-Life Vehicle legislation requirements?



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EUROPEAN UNION  
European Social Fund

## OVERVIEW OF PROJECT SUPPORT



The CoDesign project aims to introduce the concepts of Design for the Environment to manufacturing SMEs in the West Midlands. Delivery of support to participating organisations is through a series of activities including introductory training sessions, development workshops, on line training materials, case studies and checklists.

### END-OF-LIFE VEHICLE DIRECTIVE

The design implications of the End-of-Life Vehicles (ELV) Directive are being passed down the supply chain in an attempt to reduce, or prevent, waste and increase the recovery and recycling of components. Applying good Design for Environment practice will support suppliers in meeting ELV requirements to:

- Limit the use of hazardous substances; notably heavy metals.
- Increase the quantity of recycled material.
- Design for easy recycling, to meet recovery & recycling targets.

Many manufacturers also need to address Hazardous Waste legislation and some also the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Directive (ROHS) Directive.

The automotive supply chain has been adopting Environmental Management Systems for a number of years and DfE is a logical step in implementing an overall environmental management system.

### PRODUCTS AND PROCESSES

Design for the environment can be applied equally to both products and processes and a combined approach will help maximise the cost that can be driven out of the final product. The programme will help demonstrate how these benefits can be achieved.

### APPRECIATE HOW DESIGN FOR ENVIRONMENT WORKS IN OTHER COMPANIES

Manufacturers and suppliers in many engineering industries are implementing Design for Environment, the project uses case studies to show how this works in practice and how you can learn from others.

The CoDesign project is delivered by the University of Birmingham and Pro Enviro Ltd and is supported by The European Social Fund and the Accelerate Programme.

We would be pleased to discuss how this free on line or workshop training could improve your business capability and any other aspects of the CoDesign project.

For more details  
please contact:

Steve Stones  
Pro Enviro Ltd  
Barclays Venture Centre  
Sir William Lyons Road  
Coventry, CV4 7EZ

Tel: 024 76 323 260  
Fax: 024 76 323 261

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