

# PowerShape Pro Essentials

2 Day Training Course

## Audience

Professionals from tool making, die and mold manufacturing industry, automotive industry that need to reverse engineer scanned data to create surface and solid models ready for machining or modification.

## Prerequisites

A detailed working knowledge of Autodesk Powershape is required prior to attending this training course.

## Agenda

### Basic Resurfacing:

- Creating curves from a mesh
- Creating surfaces from curves – from Revolution, from Separate and Drive Curve using the Smart Surfacer.
- Creating Surfaces using the Automatic Mesh Segment tool
- Creating Surfaces using the Manual Mesh Segment tool
- Creating Solids from Untrimmed Surfaces

### Mesh Edit Toolbar:

- Use various mesh shading options available in Autodesk PowerShape Pro
- Reducing and refining a complete mesh to improve smoothness.
- Selecting triangles within a mesh using the Mesh Edit toolbar

### A real world reverse engineering example:

- Aligning the model's mesh
- Cleaning up the mesh data .

- Using Autodesk PowerShape's modelling tools to help Reverse engineer the following steering support used in the Bloodhound SSC.

### Reverse Engineering:

- Importing a point cloud ready for reverse engineering
- Aligning the mesh
- Reverse engineering the mesh to create the solid model
- Dimensioning the Solid and creating features

### 3D Surfacing:

- Shrink wrapping a surface to a mesh
- Fitting and manipulating Surfaces over a scanned point cloud using sketched wireframe curves.

All courses are normally run on the latest software release. The agenda can be varied to suit a clients preferences and requirements. On completion of the course you will be presented with an Autodesk Authorised Completion Certificate. All our courses follow Autodesk approved coursework.

### Locations

Bristol  
Derby  
Worcester  
Pencoed  
Leeds

### Info

All food, equipment, software & amenities are provided. Please let a staff member know of any food allergies prior to the course.

### Contact

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