PowerShape Reverse Engineering Professional

CADSPEC
STANFORD MARSH GROUP

3 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.

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