



ICEM Surf Foundation Course

€ 900
+ IVA

PROFESSOR: Steven Cobert

DATE: Contact us for more info

DURATION: : 12 hours

The aim of this course is to instruct users in the basic knowledge needed to create ICEM Surf surface models. No previous experience of surfacing is required. The techniques shown are applicable to both CAS and A-class surfacing. Students will learn how to create a key-fob to an A-class standard, based on sketches and engineering dimensions.

Contents

Session 1: Introduction to Alias

- Surfacing in automotive design
- CAS and A-class surfacing
- Bezier and NURBS
- Clay vs. digital
- ICEM Surf User Interface and Customisation

Session 2: Viewing and Model Management

- Geometry types
- Creating geometry
- Views & Planes
- Moving objects
- Managing files
- Managing geometry

Session 3: Working with Curves

- Creating curves
- Modifying curves
- Analysing curves
- Curve theory
- Circles and arcs
- Symmetry
- Multiple curves
- Key fob exercise: 2D curves

Session 4: Working with Surfaces

- Creating surfaces
- Modifying surfaces
- Analysing surfaces
- Symmetry: half-width vs. full-width models
- Key fob exercise: Symmetric surfaces

Session 5: Multiple surfaces

- Patch planning
- Creating primary surfaces
- Creating secondary surfaces
- Key fob exercise: Block surface model

Session 6: Blends and Fillets

- Blends
- Fillets
- Rendering basics
- Key fob exercise: Completing the model

What the course offers

- Students will learn how to create a key-fob to an A-class standard, based on sketches and engineering dimensions.
- Thanks to the Moodle platform it is possible to view the teaching material at any time, check the planning of activities, respond to online tests, ask questions and collect clarifications by relating to the other participants and the professor.
- At the end of the 12-hours course, a certificate of participation in the training will be issued.

About the Professor



My personal mission is to deliver the **highest quality surfaces** to customers, on-time and on-cost as well as training and mentoring others to achieve the same.

Within Geodigm I have trained over 200 users in **Ford, Bentley, Land-Rover, Bertrandt & others**. Geodigm managed and delivered the A class surfaces for the exterior of the Ford GT Mk 1 to a strict 3 month deadline. I have personally trained, mentored and managed multiple teams of new users for **Jaguar Land Rover and Lotus**, created A class and concept surface complete exterior models for many prototype and low-volume / bespoke vehicles, including the Modec Electric van. I have also worked on **Autodesk Alias & ICEM Surf concept** and A class surface models across many Automotive companies & Design houses, encompassing every aspect of exteriors & interiors as well as work in aircraft interiors, boats and industrial design products.

I have been passionate about surface modelling throughout my career; from 1984 when I joined BAe as an Aerodynamic Research Engineer where I developed a polygonal modelling system for aircraft configurations, through 1988 at Rover Group where I investigated CADDs NURBS, and trained others in their use. Then as the ICEM Surf Support Engineer for Topologies, finally forming Geodigm in 1999 to continue providing industry with ICEM Surf & Autodesk Alias expertise & training in A Class Surfacing, Concept Modelling & Reverse Engineering.

I conceived of and **developed SURF+**, a software app for ICEM Surf, delivering up to 30% productivity benefits to the user. This was presented at the Dassault Systèmes User Conference in Hanau, 2018. In 2020 I provided at-elbow Alias A-class support for **Kia** in South Korea for several months.

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