



INNOVACION | INDUSTRIA | DISEÑO | TECNOLOGIA

Surface Design Specialist

Educación	<ul style="list-style-type: none">- Ingeniero Mecánico Administrador ITESM Campus Monterrey	<ul style="list-style-type: none">- Diplôme Ingénieur ENIM (Bac+5)- Master en Conception Assistée par Ordinateur
Idiomas	Español, Inglés, Francés, Alemán	
Áreas de especialización	Interiores: <ul style="list-style-type: none">• Ensamble Tablero• Ensamble Revestimientos de Puertas• Consola Central• Revestimientos de Pilares• Bandeja Posterior	Exteriores: <ul style="list-style-type: none">• Ensamble Fascia Trasera• Pilares Exteriores• Molduras Cromadas• Loderas plásticas• BIW Ensamble Cajuela Motor: <ul style="list-style-type: none">• Aislantes de sonido y de calor.

¿A quién va dirigido?

Personas interesadas en aprender metodologías de Diseño Asistido por Computadora usando el software Catia V5 siguiendo las normativas y metodologías del grupo VW. Para este curso se requiere un conocimiento básico del software de CATIA. Al finalizar el curso estarán preparados para hacer el examen de **Certificación de Dassault** con validez Internacional.

Inicio: 2 de octubre de 2013

Horario: Martes y Jueves de 7PM a 10PM.

Duración: 48 horas

Precio Curso: \$ 7000.00 MXN

Precio Certificado: \$ 140.00 USD

Inversión



CONCEPTO	MENSUALIDADES												INV. TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	
3 meses	\$ 2,453.22	\$ 2,453.22	\$ 2,453.22										\$ 7,359.67
6 meses	\$ 1,256.01	\$ 1,256.01	\$ 1,256.01	\$ 1,256.01	\$ 1,256.01	\$ 1,256.01							\$ 7,536.07
12 meses	\$ 667.69	\$ 667.69	\$ 667.69	\$ 667.69	\$ 667.69	\$ 667.69	\$ 667.69	\$ 667.69	\$ 667.69	\$ 667.69	\$ 667.69	\$ 667.69	\$ 8,012.27
2 parcialidades (efectivo, transferencia, cheque)	\$ 3,500.00	\$ 3,500.00											\$ 7,000.00

*Para el pago a mensualidades comunicarse a nuestro teléfono al 222-214-4458 o por email a ventas@inditeq.com.

Bancario:

INDITEQ DISEÑO INTELIGENTE S.A. DE C.V

No. de cuenta: 65503857616

CLABE Int. : 014650655038576164

Suc. 451, Banco Santander

En nuestras oficinas:

Torre de Deloitte

Blvd. Vía Atlixcayotl 5506, suite 203

Col. Reserva Territorial Atlixcayotl



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Catia Surface Design Fundamentals

1. Introduction to Surface Design

1. Introduction to Surface Design
2. The Generative Shape Design Workbench
3. Surface Design Workbench User Interface
4. Surface Design Workbench Terminology
5. Surface Design Workbench General Process

2. Creating Wireframe Geometry

1. Why Create 3D Wireframe Geometry
2. Creating Points in 3D
3. Creating Lines in 3D
4. Creating Planes in 3D
5. Creating Curves in 3D
6. Additional Reference Material
7. To Sum Up

3. Shape Design Common Tools

1. Why Use Common Tools
2. Stacking Commands
3. Managing Geometrical Sets

4. To Sum Up

5. Creating Surfaces

1. Why Create Surface Geometry
2. Creating Basic Surfaces
3. Creating a Swept Surface
4. Creating a Surface Offset from a Reference
5. Creating a Surface from Boundaries
6. Creating a Multi-Section Surface
7. Additional Reference Material
8. To Sum Up

6. Performing Operations on the Geometry

1. Why are Operations on Geometry needed
2. Joining Elements
3. Splitting/Trimming
4. Creating Fillets
5. Creating Chamfer
6. Transforming Elements
7. Extrapolating Elements

- 8. Disassembling Elements
- 9. Additional Methods for Operations
- 10. Additional Reference Material
- 11. To Sum Up

7. Completing the Geometry in Part Design

- 1. Why Complete the Geometry in Part Design
- 2. Creating a Solid from Surfaces
- 3. Completing Geometry Recommendations
- 4. Additional Reference Material
- 5. To Sum Up

8. Modifying the Geometry

- 1. What about Modifying the Geometry
- 2. Editing Surface and Wireframe Definition
- 3. Modifying Geometry Recommendations
- 4. Additional Reference Material
- 5. To Sum Up

9. Using Tools

1. What about Using Tools
2. Creating Datum Features
3. Checking Connections Between Elements
4. Updating a Part
5. Creating Axis System From Compass
6. Additional Reference Material
7. To Sum Up



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Catia Surface Design Expert

1. Introduction to Surface Design

1. Surface Design Workbench Overview
2. Managing Features and Geometrical Sets
3. Geometrical Sets – Recommendations

2. Creating Advanced Wireframe Features

1. MD2/GSD Wireframe versus HD2/GSD Wireframe
2. Creating and Extremum
3. Creating a Connect Curve
4. Additional Advance Wireframe Features

3. Wireframe Analysis and Repair

1. Why do you need to Analyze Wireframe Geometry?
2. Curve Connect Checker
3. Smoothing Curves
4. Wireframe Analysis - Recomendations

4. Creating Advanced Swept Surfaces

1. Swept Surfaces - Description

- 2. What is a Swept Surface?
- 3. Inputs for Sweep
- 4. Creating and Adaptive Swept Surface

5. Creating Advanced Blending Surfaces

- 1. What is a Blend?
- 2. Type of Blends
- 3. Creating Fillets using Hold Curve and Spine
- 4. Creating Fillets using Law
- 5. Creating a Blend Surface
- 6. Blend Surfaces Recommendations

6. Surface Analysis

- 1. About this Lesson
- 2. Curvature Analysis
- 3. Surface Analysis – Recommendations

7. Additional Surface Design Tools

- 1. Improving Geometry Stability

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2. Improving Geometry Quality
3. Improving Multi-Sections Surface Creation
4. Performing Operations
5. Checking Molded Parts



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Catia Healing Assistant

1. Introduction to Healing Assistant

1. Why Do You Need Healing?
2. Accessing the Workbench
3. User Interface: Healing Assistant Editor
4. Methodology For Healing
5. Information On the Join Operator
6. How To Choose a Merging Distance

2. Model Analysis

1. Face Checker
2. Face Orientation
3. Geometrical Display
4. Repairing Invalid Checker
5. Repairing Topology

3. Closing a Join Surface

1. Checking For free Sides
2. Fixing Free Sides
3. Local Join
4. The Healing Operator
5. Local Healing

4. Comparing Models

1. Compare Parts

5. Customizing the Workbench

1. IGES 3D Import
2. CATIA V4 Import

CATIA SURFACE DESIGN SPECIALIST CERTIFICATION



Exam code: CAT-SUT-101-518/CAT_SUR_101_520

Product covered: CATIA V5R18 Generative Shape Design / CATIA V5R20 Generative Shape Design

Topics covered:

3DWireframe: curves, lines, planes and points creation and modification...

Geometric transformations: axis to axis, affinity, symmetry...

Curves in space: circles, parallel and connect curves, splines, corners, spiral...

Curves on surfaces: intersection projection, boundary, propagation, combine...

Surfaces from curves: sweep, blend, multi-section surfaces, sill, sphere, revolution, extrude...

Surfaces from surfaces: offset, near, disassemble, untrim, join, join, split, extrapolate, extract, fillets...

Operations: Surface-solid operations, connect checker, draft analysis, feature edition. Work on support, display modes...

Duration: 75 minutes

Number of questions: 63