IFS ACADEMY

Training For The Future!!

Seating System Design using CATIA V5

Course Curriculum (Duration: 80 Hrs.)

1. **Basic Fundamentals about Seat**
   a. Introduction about seat
   b. Seat types
   c. Vehicle types
   d. Seat Features and Components
   e. Design Parameters
   f. Manikin Information
   g. SGRP, H-Point, Torso Angle and Cushion Angle

2. **Initial Packaging**
   a. Access to surrounding components
   b. Spacing availability
   c. Environmental data
   d. HR position
   e. Market Study
   f. Gap Study
   g. Control Access Study
   h. M to M Distance
   i. Lever Latches Packaging

3. **ECE regulations**
   a. Regulations used
   b. Parameter consider for regulations
   c. Indian Regulation

4. **Foam Making & Trim**
   a. Material
   b. Process
   c. Parameters
   d. Foam built (CAD concept)
   e. Structural considerations
   f. Packaging
   g. Methods used for Trimming

5. **Armrest \ Headrest Design**
   a. Material
   b. Process
   c. Types
   d. Regulations used
   e. Packaging

6. **Mechanism**
   a. Types of seats

b. Types of tracks
c. Types of Recliner / Latch
d. Types of HR
e. Other Mechanisms

7. GD&T

a. Introduction
b. Different types of symbols used
c. Datum's
d. Features frame
e. 2D Drawing
f. Part and Assembly Drawing

8. Layouts

a. Safety
b. Comfort
c. Packaging
d. Environment
e. Complete Seat
f. Fasteners

9. BOM & Assembly

a. BOM creation and annotations
b. Significance
c. Annotation and Details
d. Assembly structure

10. CATIA Modeling Methodology and Workshops

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