

# CATIA Training Programme

## 3-Level Professional Pathway

### Level 1: CATIA Fundamentals

**Duration:** 10 Hours

**Price:** R8,900

**Prerequisites:** None

**Overview:** This foundational course introduces learners to CATIA for 3D mechanical design and basic engineering workflows.

**Modules:**

- CATIA interface, navigation, and workbenches
- Sketcher workbench: sketches, constraints, dimensions
- Part Design fundamentals: Pad, Pocket, Shaft, Hole
- Reference geometry and measurements
- Saving, exporting, and basic best practices

### Level 2: CATIA Advanced

**Duration:** 20 Hours

**Price:** R15,900

**Prerequisites:** CATIA Fundamentals

**Overview:** This course builds advanced modeling skills and introduces assemblies and professional drafting.

**Modules:**

- Advanced Sketcher techniques and design intent
- Multi-body part design and Boolean operations
- Advanced features: Drafts, Shells, Ribs, Slots
- Assembly Design workbench and constraints
- Drafting workbench: views, dimensions, annotations

### Level 3: CATIA Technical Master Course

**Duration:** 40 Hours

**Price:** R32,700

**Prerequisites:** None

**Overview:** An intensive master-level CATIA course covering advanced design, surface modeling, assemblies, and manufacturing preparation.

**Modules:**

- Advanced part modeling strategies and parametric design
- Generative Shape Design (surface modeling)
- Hybrid solid and surface modeling techniques
- Large assembly management and kinematics
- Clash detection and interference analysis
- GD&T; fundamentals and engineering standards
- Design for Manufacturing (DFM) concepts
- Capstone real-world CATIA design project