

## Creo® Simulate Basic Training (3 days)

**'In'-Tuition – In-house, Intensive training for Individuals**  
**We come to you to deliver these courses.**

**You use your own software, we supply the trainer.**

**Standard Course :- £1800 for 1 person, £2550 for 2 people, £2925 for 3 people.**

### Content as of 1<sup>st</sup> Dec. 2014

This course provides an introduction to the functionality available in the Basic Creo Simulate licence, with student examples for the most commonly used functions. For a more in-depth treatment and further examples, please see our Intermediate, Advanced and Specialist Courses

- Introduction
- FE Modelling with Mechanics
  - FE Theory
  - Element Types
  - Loads & Constraints
  - Materials
  - Types of Analysis
  - Meshing
  - Measures
  - Convergence
    - MPA v SPA v QC
  - Results
- Single Part Solid Models
  - Measures
  - Materials
- Single Part Shell Models
  - Shell Pairing (Auto/Manual)
  - Constraining Shells
- Simple Assemblies – Solids
- Simple Assemblies – Shells
- Mixed Element Models
- Constraints
  - Multiple Constraint Sets
  - Symmetry
  - Enforced Displacement
  - 3-point Constraints
  - Inertia Relief
- Load Types
  - Force/Moment
  - Pressure
  - Gravity & Body Loads
  - Bearing
  - Temperature
  - TLAP
  - Multiple Load Sets
  - Spatial Variation of Loads
- Model Geometry
  - Regions,
  - Suppress
  - Symmetry
  - Coord Systems
- Connections
  - Spot Welds
  - Welds
  - Rigid Connections
  - Interface
  - Weighted Links
  - Simple Fasteners
- Analysis Types
  - Contact Analysis
  - Modal Analysis
  - Buckling Analysis
  - Thermal Analysis
  - Sensitivity Analysis
  - Optimisation

Pre-requisite : Previous Creo Parametric experience or training

Note: It may not be possible to get through everything in the time, in which case the most appropriate items will be selected.

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