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# SOLIDXPERTS TRAINING

**COURSE OUTLINE**

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## COURSE OUTLINE / SOLIDXPERTS TRAINING

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## SOLIDWORKS PERFORMANCE – 2 DAYS (14H)

Prerequisites : This training is intended for users with at least 1 year of experience  
This course is given using digital files only (no physical book is provided)  
This training is only available remotely

### 1. Structure of Default Templates

- What aspects can influence file size?
- Impact of Tessellation Quality
- Number of configurations in a file
- SOLIDWORKS last saved version
- Oldest features in a SOLIDWORKS file
- Number of in-context features

### 2. Work Methods

- Number of fixed components in an assembly
- Using the flexible feature
- Assembly Features
- Temporary update folder from external references
- Number of parts per assembly level
- Parts rebuild time
- Number of features in a part
- Errors in Solid Bodies
- Quantity of errors in features
- Quantity of reference errors
- Use of the freeze bar

### 3. Managing Imported Files

- Number of appearances in file
- Number of bodies in part
- Number of surfaces in a part
- How to reduce file size of imported files
- How to manage libraries from “McMaster, Parker etc.”

### 4. Workflow of Different Quick Open Modes

- Large design review
- Lightweight components
- SpeedPack
- Parts in simple version
- Detailing mode
- Open an assembly in simple version

### 5. Drawing Performance

- Impact on drawing performance
- View in draft quality vs. High quality
- Impact of Section Views
- Line format
- Automatic view updates
- Quick Open Tips
- Impact of Sketches in a Drawing
- Impact of configurations in views

### Annex : ToolsXperts Demo



- DoctorXperts
- Explode Configurations
- ReferencesXperts

## SPECIFIC NOTE FOR THIS TRAINING

For reasons of convenience, collaboration and interactivity and also to allow you to obtain concrete examples on your workstations and with your files, **this training is only available remotely.**

**Course Objectives :** At the end of each course, students will know the capabilities of the software and will be able to use the learned features.

**Training Course :** Training is given in class at SolidXperts or online where each student has access to a workstation or online product version.

**Methodology :** Training is based on case studies demonstrated by the instructor.

**Competences Evaluation :** During the classwork, the instructor will correct the exercises on-demand and explain the solutions to the entire class if needed.

**Instructor :** SolidXperts trainers are Certified SolidWorks Instructors (CSWI) and authorized by Emploi-Québec.

**Course Materials :** This course is given using digital files only (no physical book is provided)

**Attestation :** A certificate will be given to each student at the end of the course to attest to the successful completion of the requirements for the course.

## CAD ADMINISTRATORS – 2 DAYS (14H)

Prerequisites : Experience as an engineering manager or in IT.  
Understanding of the Windows operating system.  
This training is only available remotely

### 1. SOLIDWORKS Computer Requirements

- Analysis of computer hardware
- Review of computer needs to ensure good performance and stability
- Certified graphics card drivers

### 2. Installing SOLIDWORKS

- Review of installation techniques on a new workstation
- Review of installation techniques on a workstation with a previous SOLIDWORKS
- Creation of an administrative image for a large deployment
- Advanced uninstallation technique

### 3. File Management

- Network server maintainability and speed analysis
- Network directory naming best practices
- Antivirus Exceptions list
- Different types of network

### 4. System Settings and Document Templates

- Analysis of SOLIDWORKS system parameters
- Validity of the need for system parameters changes
- Analysis of the Sharing of system parameters between users
- Management of document templates
- Explanation and proof of document templates changes
- Property tab builder

### 5. Collaborative Environments

- Analysis of shareable elements (ex: Material database, Custom Bill of Materials, Toolbox, weldments, etc.)
- Maintenance of shareable items
- Files location management
- Multi-user environment
- SOLIDWORKS Search Routine
- Understanding the Pack and Go
- Design Library

### 6. Tools for CAD administrators

- CAD Admin Dashboard
- Design Checker
- Best practice document

### SPECIFIC NOTE FOR THIS TRAINING

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