



**SOLIDWORKS**  
**SOLIDXPERTS**  
**Training**

**Course Outline**

**SOLID**  **PERTS**  
by solidxperience

***ENSURE YOUR SUCCESS IN 3D DESIGN WITH SOLIDWORKS***

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**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. At the end of each lesson, time will be given for exercises.  
**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** : One or more training manuals are included with the training course.  
**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.

## SOLIDWORKS Performance Training – 2 days (14h)

*\*Prerequisites : This training is intended for users with at least 1 year of experience*

### 1. Structure of Default Templates

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- 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

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

### 3. Managing Imported Files

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- 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

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

### 5. Drawing Performance

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- 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

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## CAD Administrators – 2 days (14h)

*\*Prerequisites : Experience as an engineering manager or in IT.  
Understanding of the Windows operating system.*

### 1. SOLIDWORKS Computer Requirements

- Analysis of computer hardware
- Review of computer needs to ensure good performance and stability
- Certified graphics 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 an Go
- Design Library

### 6. Tools for CAD administrators

- CAD Admin Dashboard
- Design Checker
- Best practice document

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