

# 2019 SYNCHRO Training Topics

## SYNCHRO PRO Fundamental

SYNCHRO Fundamentals provides a two-day full experience covering the basic topics of SYNCHRO PRO. By the end of the training, the participants will understand the basic functions of SYNCHRO and will be able to create their 4D models and export the sequenced images or animations for project team review and presentation. It is focused on teaching the essential skills in using the SYNCHRO PRO productively at an introductory level for project implementation.

The Fundamental course will use a building model to demonstrate and practice SYNCHRO PRO features. The course is designed for new users or experienced users who need a refresher to warm up the SYNCHRO knowledge.

## SYNCHRO PRO Fundamental Training Topics

### Day 1

- F01 – Introduction to 4D
- F02 – User interface, navigation and options
- F03 – Import 3D models and interoperability
- F04 – Select and filter 3D, 3D View and 3D Objects window
- F05 – Import schedule and interoperability
- F06 – Navigation in Gantt and scheduling Basics
- F07 – Task filter, 3D filter and filter by column
- F08 – Resource Wizard and create Resources
- F09 – Assign Resources and Resource Appearance Profile
- F10 – Subdivide 3D objects for construction
- F11 – Auto-matching
- F12 – Import equipment, edit 3D Objects, assign and Edit as Assigned

### Day 2

- Practice drill (2hr)
- F13 – Create a schedule baseline
- F14 – Model-based scheduling (create schedule from model)
- F15 – SYNCHRONise from updated schedule
- F16 – Import equipment, assign and 3D Path
- F17 – Viewpoint, Cutting Plane, and Layouts
- F18 – Create an animation
- F19 – Export animation and options
- F20 – Update schedule progress and Schedule Health Check

## SYNCHRO PRO Fundamental User Exam and Certification

[SYNCHRO PRO Fundamental User Exam and Certification](#) is available on SYNCHRO Academy.

## SYNCHRO PRO Advanced

The Advanced course requires the attendees being familiar with basic SYNCHRO PRO features and can quickly navigate through the program to find the features and functions being taught in this course. One of the following pre-requisites needs to be met by Advanced training participants:

- Has completed the SYNCHRO PRO Fundamental training
- Has previous hands-on experience using SYNCHRO PRO on project(s)

The advanced training course will be utilizing realistic project model(s) and scenarios, which will help the attendees better understand the sophistication and lifecycle project implementation of the program by learning and practicing a combination of features.

Most of the sessions include hands-on practices, while some of them are for users' awareness only and hands-on practice is not required. In addition to SYNCHRO PRO, users will also have exposure to SYNCHRO SITE, SWP (LINK) and SITE XR on HoloLens.

### Advanced Training Topics

- Session 01 – Set up SYNCHRO project template
- Session 02 – Set up Layouts for planning and lookahead
- Session 03 – Auto-matching on projects
- Session 04 – Introduction to User Field Formula
- Session 05 – Introduction to SYNCHRO Script
- Session 06 – Physical Quantity Dependent
- Session 07 – Resource Units and Usage Graph
- Session 08 – Resource cost, Task cost, and Earned Value
- Session 09 – Collaborative planning in SYNCHRO Workgroup Project (SWP)
- Session 10 – Introduction to SYNCHRO SITE
- Session 11 – Introduction to SYNCHRO XR
- Session 12 – Iray rendering
- Session 13 – 4D and Pull Plan (planned)
- Session 14 – Integration with PowerBI (planned)

Note: Not all the above topics will be taught if it's a one-day advanced course; 6-8 sessions will be covered upon users' and instructor's choice.

### SYNCHRO PRO Advanced User Exam and Certification

[SYNCHRO PRO Advanced User Exam and Certification](#) is available on SYNCHRO Academy.



## Minimum PC Requirements

Minimum PC requirements to run SYNCHRO PRO can be found below.

<b>Processor:</b>	2.8 GHz (x64)	32-bit (x86) processors are not supported due to memory limitations.
<b>Memory (RAM):</b>	16 GB (x64)	
<b>Hard Disk Space:</b>	1.3 GB for installation files 1 GB for each project file (typical)	Solid State Drive recommended providing enough storage space (500 GB+)
<b>Graphics Card:</b>	1 GB (DirectX Compatible)	Additional information about graphics card compatibility can be found at: <a href="http://developer.techsoft3d.com/hoops/hoops-visualize/graphics-cards/">http://developer.techsoft3d.com/hoops/hoops-visualize/graphics-cards/</a>
<b>Display:</b>	1280 x 1024 Screen Resolution Multiple Monitors	
<b>Operating System:</b>	Microsoft Windows 7 (x64) Microsoft Windows 8 (x64) Microsoft Windows 10 (x64)	32-bit (x86) processors are not supported due to memory limitations.
<b>Others:</b>	Network Connectivity Mouse with scroll wheel	Network connectivity required for License activation and Workgroup operation (With SYNCHRO Workgroup Project).

## Contact

Should you have any questions regarding SYNCHRO training and SYNCHRO Academy, please do not hesitate to reach out to Jacqueline Chen ([Jacqueline.chen@bentley.com](mailto:Jacqueline.chen@bentley.com)).