Abtech's 2026 Training Lesson Plan

Leica iCON trainings

Introduction to iCON Site/Build (180min)

- Presentation of the different products
- Interface and shortcuts
- The Data section
- The config section
- Overview of applications
- Positioning the robot and starting a GNSS base

Survey and Stakeout (45min)

- The Measure application
- Configuration of action buttons
- Codification
- Stakeout and Layout applications
- Visualization and stakeout modes

Import and preparation of plans (75min)

- File types
- Import a DXF / DWG file
- Import a point list
- Import a PDF plan
- Data verification
- Objects management

On site positioning (90min)

- Sensor creation and GNSS profile recovery
- Types of station setup (TPS)
- The creation of "offset" markers
- Anywhere station setup (TPS)
- Altitude transfer (TPS and GNSS)
- Coordinate systems (GNSS)
- Good practices

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Leica iCON trainings (Contd.)

The Volume and Surfaces program (60min)

- Surface creation
- Simple surface creation
- Complex surface creation
- Tips and advice on surfaces modeling
- Create a surface from a slope
- The different volume calculation methods
- Reports

The Road program (60min)

- Introduction and create a road from a DXF or from an XML
- Visualization
- The toolbox functions

Scanning and grids (30min)

- The scanning and grid functions
- The Sweep Inspection application
- Exporting reports

MEP-driven IFC models (45min)

- Import of an IFC model
- Management of the elements of the IFC model
- Staking out lines and points

Leica Captivate trainings

2024 News (30min)

- GS05
- CC180 + GKP100
- AP20
- TS20
- Captivate version 10
- Geocloud Drive
- Infinity – What's to come
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Introduction to Captivate (150min)

- General presentation of the interface and buttons
- Interface customization
- Creation of a job
- Data import / export
- TPS and GNSS setup
- The Survey and Stakeout programs
- Cogo calculation

Leica **Machine Control** trainings

2025 News (45min)

- SP16 technology and impact on On-Cab dozer solutions
- iCG100, Specs and cost

Introduction to machine control (90 min)

- The possibilities for machine control
- Laser receivers and Tri-sonic
- 1D and 2D systems
- 3D systems
- Automatism

Introduction to MC1 (120 min)

- Introduction to the software
- The interface and navigation in the software
- Basic functions
- The different menus
- The creation of a new project
- Data import
- Select an RTK correction source
- Connection to the total station

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Leica **Machine Control** trainings (Cont.)

Advanced functions in MC1 (60min)

- Recording of points
- How to import a Code list
- The Hold slope function
- The creation of references
- Guide to general good practices

Data import and transfer (30min)

- 3D modeling
- The different reference file formats
- Data import by USB key or by ConX
- Creation of a project
- Import of a local coordinate system

Excavation module (60min)

- Machine components
- Daily verification
- Guide to best practices
- Calibration and / or creation of a bucket
- The use of 2D
- Automatic activation
- Sensor calibration

Grading module (60min)

- Machine components
- Daily verification
- Guide to best practices
- Adjustment of blade wear
- Automatic activation
- Use of 2D
- Sensor calibration and hydraulic adjustment

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Leica **Reality Capture** trainings

2025 News (90min)

- 3DR – Engineering Catalog/ Classification/ New measure tool
- CloudWorx Viewer
- Reality Cloud Studio

Cyclone Register 360; Alignment and georeferencing(120min)

- Data import
- The different views
- Examine and optimize the point cloud
- Visual alignment
- The split view
- The use of targets and georeferencing

Other trainings

Leica ConX (105min)

- The ConX interface
- Account configuration
- The creation and edition of a project
- Add an instrument or a machine
- Data transfer and management
- Devices sync
- Advanced functionality

New technology presentation – HP Siteprint (60min)

- What is HP SitePrint?
- Types of contractors who can benefit from this technology
- The benefits of HP SitePrint
- How does it work?
- Case studies: presentation of a real-life ABTECH case, and the results obtained.
- Total stations used with HP Siteprint
- Printable surfaces
- Preparation and cleaning of CAD drawings prior to printing
- HP SitePrint Cloud
- Presentation of the cost and ROI calculator

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New technology presentation – iCS20 and iCS50 (60min)

- Vpen and Vpole technology
- Measure and stakeout
- Applications
- Software overview

BricsCAD Overview (4 hours)

- BricsCAD Lite
- BricsCAD Pro
- BricsCAD Mechanical
- BricsCAD BIM