Publication date : 02/02/2024

Course : AutoCAD 2D, advanced

optional remote TOSA® certification

Practical course - 2d - 14h00 - Ref. AUO

Price : 1380 CHF E.T.

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If you'd like to deepen your knowledge of AutoCAD, and in particular discover the advanced functions of AutoCAD (AutoCAD LT). You'll learn about external references, attribute blocks and dynamic blocks, database links and how to publish your project drawings.

Teaching objectives

At the end of the training, the participant will be able to:

- Understanding AutoCAD's advanced 2D functions
- Creating and modifying dynamic blocks
- Create links with external databases
- Creating a project with external references
- Make technical drawings interactive with parametric tools

Intended audience

Managers, architects, engineers, technicians, draughtsmen, drawing designers in design offices.

Prerequisites

Basic knowledge of 2D functions or knowledge equivalent to that acquired in the course "AutoCAD 2D, getting started" (ref. ATD).

Practical details

Hands-on work

Discussions, experience sharing, demonstrations, tutorials and case studies.

Teaching methods

Active pedagogy based on examples, demonstrations, experience sharing, case studies and assessment of learning throughout the course.

Course schedule

PARTICIPANTS

Managers, architects, engineers, technicians, draughtsmen, drawing designers in design offices.

PREREQUISITES

Basic knowledge of 2D functions or knowledge equivalent to that acquired in the course "AutoCAD 2D, getting started" (ref. ATD).

TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.
Participants also complete a placement test before and after the course to measure the skills they've developed.

1 Basic functions

- Create and modify objects.
- Layer management and control.
- Wrapping: text, dimensioning, hatching and annotation.
- Internal blocks and library elements. Linking blocks and layers.
- Paper space and object space. Multi-header.
- Printing. Paper space and object space. Multi-header.
- Electronic distribution: PDF and HTML.

2 Creating blocks with attributes

- Association of data with blocks (block attributes).
- Extract attributes to Excel, Access...
- Extract attributes, parameters and properties.
- Update data links.

Hands-on work

Automate a drawing title block with attributes.

3 Creating dynamic blocks

- Definition of parameters and actions.
- Create and modify dynamic blocks.
- Plan design.

Hands-on work

Design a plan with dynamic blocks.

4 The external reference technique

- Introduction to external references.
- Management of external references (DWG, DGN, DWF, PDF).
- Update and link external references.
- Define an external reference.
- Edit external references.
- Attach an image to the current design.

Hands-on work

Realization of a project with external references.

5 Parametric drawings

- The essentials of parametric design.
- Add geometric constraints.
- Modification of geometric constraints.
- Add dimensional constraints.
- Modification of dimensional constraints.
- Parametric editing.

Hands-on work

Create a technical drawing with parametric tools to make it more interactive.

TEACHING AIDS AND TECHNICAL RESOURCES

• The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
• At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
• A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

6 Advanced presentation and layout tools

- Annotation objects.
- Preparation of multiple-view drawings.
- Sheet set design.
- Transfer games [E-transmit].
- Publish a set of sheets on the Web.

Hands-on work
Review and validation of advanced AutoCAD functionalities.

Options

Certification : 80 € HT

La certification TOSA® atteste pour une durée de 3 ans des compétences de l'apprenant sur une échelle de 1 000 points. Le diplôme TOSA® est envoyé si le score de l'apprenant est supérieur à 551 points. Une fois l'examen réalisé, l'apprenant peut consulter en direct ses résultats et reçoit par e-mail une attestation, une restitution détaillée de ses compétences ainsi que son diplôme sous 5 jours. L'examen dure 1 H 00 et se présente sous la forme de 35 exercices alternant entre des manipulations sur le logiciel et des QCM, dont la difficulté s'adapte selon les réponses de l'apprenant. Sans demande spécifique, il est dispensé par défaut en français et sur la version logicielle la plus récente. La surveillance est faite par un logiciel et est enregistrée à des fins de contrôle de conformité.

The certification option comes in the form of a voucher or invitation that will allow you to take the exam at the end of the training course.

Dates and locations

REMOTE CLASS
2026 : 23 Mar., 22 June, 28 Sep., 7 Dec.