

Course : AutoCAD - 2D Drawing - Advanced

Practical course - 3d - 21h00 - Ref. AUF

Price : 1630 CHF E.T.

NEW

Mastering AutoCAD is now indispensable for anyone who has to design, modify or use technical drawings in a professional context. This course has been designed to help technicians, draftsmen, designers and engineers perfect their fundamental 2D drawing skills.

Teaching objectives

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

- ✓ Utiliser les outils avancés de dessin, de modification et de gestion des calques
- ✓ Créer et gérer des blocs dynamiques avec attributs pour structurer les dessins
- ✓ Exploiter les références externes, les gabarits et les styles pour standardiser la production
- ✓ Master multiple printing, sheet sets and project management methodology

Intended audience

Manufacturing technicians, draughtsmen, project designers, design engineers, design office managers, anyone dealing with technical drawings.

Prerequisites

Completion of the training course "AUE : AutoCAD - Dessin 2D - Initiation" or equivalent knowledge.

Course schedule

PARTICIPANTS

Manufacturing technicians, draughtsmen, project designers, design engineers, design office managers, anyone dealing with technical drawings.

PREREQUISITES

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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 AutoCAD 2D basics

- Création et modification d'objets.
- La gestion et le contrôle des calques.
- L'habillage : texte, cotation, hachurage et annotation.
- Les blocs internes et les éléments de bibliothèque. Liaison entre bloc et calque.
- Espace papier et espace objet. Multifenêtrage.
- L'impression. Espace papier et espace objet. Le multifenêtrage.
- Electronic distribution: PDF and HTML.

Exercise

Take over an existing drawing, reorganize it with layers and standardized annotations.

2 Drawing and editing tools

- Association de données aux blocs (attributs de bloc).
- Extraire des attributs vers Excel, Access...
- Extraction d'attribut, de paramètres et de propriétés.
- Mise à jour des liaisons de données.

Example

Automate a drawing title block with attributes.

3 Creating dynamic blocks

- Définition des paramètres et des actions.
- Création et modification des blocs dynamiques.
- Plan design.

Example

Design a plan with dynamic blocks.

4 The external reference technique

- Introduction aux références externes.
- Gestion des références externes (DWG, DGN, DWF, PDF).
- Mise à jour et liaison des références externes.
- Délimiter une référence externe.
- Éditer des références externes.
- Attach an image to the current design.

Example

Realization of a project with external references.

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.

5 Advanced style and template management

- Création et optimisation de gabarits pour des environnements multiprojets.
- Mise en place de bibliothèques de styles centralisées et partagées.
- Paramétrage de normes CAO (DWG Standards) et contrôle automatique de conformité des fichiers.
- Integration of corporate graphics in templates (dynamic title blocks, standardized layers, standardized styles).

Exercise

Creation of a multi-layer template integrating text styles, dimensioning and hatching. Automated quality control of drawings using DWG standards. Design of a complete template including dynamic title block and predefined print parameters for rapid distribution.

6 Parametric drawings

- L'essentiel du dessin paramétrique.
- Ajout de contraintes géométriques.
- Modification de contraintes géométriques.
- Ajout de contraintes dimensionnelles.
- Modification de contraintes dimensionnelles.
- Parametric editing.

Exercise

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

7 Advanced presentation and layout tools

- Les objets d'annotation.
- Préparation des dessins en vues multiples.
- Conception de jeu de feuilles.
- Jeux de transfert [e-transmit].
- Publish a set of sheets on the web.

Example

Review and validation of advanced AutoCAD functionalities.