Course : Creating technical drawings with AutoCAD

ENI certification - RS6888
Practical course - 5d - 35h00 - Ref. AUA
Price : 2030 € E.T.

NEW

On completion of this course, you will be able to use AutoCAD independently to produce professional technical drawings. You'll master how to set up projects, manage layers, create blocks and libraries, and create drawings from sketches or plan backgrounds. You'll be able to configure views, generate tables from drawing data, and publish your projects in appropriate formats. This course will enable you to produce high-quality deliverables and collaborate effectively with other professionals.

Teaching objectives

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

- Correctly set up a project and the AutoCAD environment according to project specifications
- Create, structure and organize files using layers and templates
- Produce detailed technical drawings from sketches or documents
- Create and manage a block library for homogeneous projects
- Use external references (Xrefs) to work on collaborative backgrounds
- Manage views, coordinate systems and windows for optimum visualization
- Generate and use tables to extract and exploit project data
- Publish and share projects in suitable formats (PDF, DWG, DWF)
- Collaborate effectively on projects using exchange and sharing tools

Intended audience

This certification is aimed at professionals in architecture, urban planning, construction, mechanical engineering or industry, using AutoCAD to produce models and technical drawings.

PARTICIPANTS

This certification is aimed at professionals in architecture, urban planning, construction, mechanical engineering or industry, using AutoCAD to produce models and technical drawings.

PREREQUISITES

Basic knowledge of technical drawing and minimum use of computer-aided design (CAD) software.

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.

Prerequisites

Basic knowledge of technical drawing and minimum use of computer-aided design (CAD) software.

Certification

La certification ENI « Réalisation de dessins techniques avec AutoCAD » est incluse dans l'inscription à cette formation. Accessible en ligne 24h/24, l'évaluation est chronométrée (1h30) et comprend des cas pratiques et un QCM/QCU. Les cas pratiques, reproduisant un environnement de travail réaliste, valent cinq fois plus qu'une question QCM/QCU. Le score sur 1000 détermine le niveau atteint : opérationnel (500 à 700 points) ou avancé (701 à 1000 points). La certification est obtenue dès 500 points et valide les compétences en création de plans et dessins techniques pour divers domaines (logement, mécanique, etc.). Les résultats sont disponibles immédiatement après l'épreuve, et le certificat est envoyé par e-mail. Enregistrée sous le numéro RS6888 au Répertoire Spécifique de France Compétences, cette certification garantit la maîtrise d'AutoCAD pour des usages professionnels. Lien vers la fiche France compétence : https://www.francecompetences.fr/recherche/rs/6888/

Course schedule

1 Working environment and settings

- Using the startup interface and the graphical user interface.
- Set AutoCAD options and customize the user interface.
- Configure keyboard shortcuts for efficient working.
- How AutoCAD units work.
- Create and configure an AutoCAD file to suit the project.
- Create and use a suitable template.

Hands-on work

Create a project file with adapted units and styles. Customize a template including layers and standardized annotations.

2 Structuring and organizing files with layers

- Create and manage layers to structure project elements.
- Set layer properties (colors, line types, thickness).
- Use layer states and filters to manage complex projects.

Hands-on work

Structuring a file with dedicated layers (walls, doors, annotations). Set up and manage layer states for a project with several variants.

3 Production of detailed technical drawings

- Drawing aids.
- Use drawing tools.
- Use of editing tools.
- Check and modify properties of drawn objects.

Hands-on work

Reproduce a technical drawing from a supplied sketch. Add annotations, dimensions and symbols to an existing drawing. Use editing tools to adapt a drawing to specifications.

4 Creating and managing block libraries

- Create and modify simple blocks.
- Create and modify dynamic blocks.
- Create and use external blocks and organize blocks in a library.
- Add attributes and customize blocks.
- Extraction of block attributes for use in the project.

Hands-on work
Create a library of symbols for a specific project (doors, windows, equipment). Use dynamic blocks in a collaborative project.

5 Management of external references (Xrefs) and backgrounds

- Import, configure and use Xrefs.
- Use cleaning tools to optimize files.

Hands-on work
Integration of a plan background in an AutoCAD file. Superimpose several Xrefs to visualize modifications made by different contributors.

6 Viewpoint management and coordinate systems

- Use views, User Coordinate Systems (UCS) and object-space windows.
- Create multiple viewpoints for specific project details.

Hands-on work
Configuration of a UCS for a complex technical drawing. Set up several windows in the object space to compare different areas of the drawing.

7 Add annotations, ratings and tables

- Manual table creation with style application.
- Setting and using text.
- Setting and using dimensions.
- Set up and use tables.
- Automatic generation of tables with the Quantities palette.

Hands-on work
Generate a summary table for a construction project. Extraction and integration of data (quantities, properties) in an automatic table.

8 Publication and project collaboration

- Page setup.
- Create and manage project presentation views.
- Manage presentations for printing or PDF export.
- Export projects in various formats.
- Share drawings and add comments.

Hands-on work
Create a set of presentations for printing and publication in PDF format. Export a project in various formats (DWG, DWF, DXF). Collaborate on a project via an online sharing tool (such as Autodesk Docs).

9 ENI certification

- Examination procedures.
- Personalized advice.

Dates and locations

REMOTE CLASS
2026 : 23 Mar., 15 June, 28 Sep., 7 Dec.

PARIS LA DÉFENSE
2026 : 16 Mar., 8 June, 21 Sep., 30 Nov.