MERCURY

# Advanced CAD: Quality Assurance, Productivity Enhancement, & Innovative Methodologies

14 – 18 December 2026
London (UK)



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# Advanced CAD: Quality Assurance, Productivity Enhancement, & Innovative Methodologies

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## Introduction:

This program provides the CAD Operator and Engineer with the essential understanding and tools for Quality Assurance, improving Productivity, and leveraging Innovative Methodologies in CAD.

Throughout the advanced CAD innovations and productivity course, participants will explore Work Methodologies, tools, accessories, and customizations across multiple CAD platforms.

This advanced CAD innovations and productivity training is not specific to any CAD software, allowing for broad applicability whether participants use AutoCAD, Microstation, or other advanced CAD systems.

For Operators, Checkers, Engineers, and Supervisors, the challenge often lies not in creating good drawings but in the time-consuming CAD drafting errors that are difficult to detect, correct, or redo.

Many of these errors can be avoided with the right training. Further strategic considerations for Productivity, accuracy, standardization, and quality inspection in CAD are exclusive to this advanced CAD course.

## Targeted Groups:

- Operators.
- Checkers.
- Engineers.
- Supervisors.
- Draftsmen and Engineers.

## Course Objectives:

By the end of this advanced CAD training, participants will be able to:

- Understand the Technology Transfer to the Participants.
- Gain a multidisciplinary, skills-based, competencies-based, and step-by-step analytic understanding of the program topics and issues, typically acquired from years of rich and diverse work experience.
- Reflect on and learn from their past, present, and future job-related experiences.
- Identify, support, and implement improvements in their work area, team, section, department, or organization.

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## Targeted Competencies:

By the end of this advanced CAD training, target competencies will:

- Quality Assurance in CAD.
- Productivity Improvement.
- Work Methodologies for CAD Productivity.
- Mastery of Tools, Accessories, and Customizations.
- Proficiency in AutoCAD, Microstation, and other Advanced CAD Software.

## Enhancing CAD Training:

Participants interested in obtaining a CAD certificate or auto CAD certification will find that this advanced CAD innovations and productivity course provides a substantial foundation for preparing for such qualifications.

This comprehensive, advanced CAD innovations and productivity course ensures that upon completion, individuals are equipped with the knowledge and practical skills required for various CAD certifications available in the industry.

Upon completing this advanced CAD innovations and productivity course, individuals may pursue further CAD training, such as auto CAD training, or engage in self-paced learning through a CAD software course to continue their professional development in CAD.

## Course Content:

### Unit 1: Productivity Methods in CAD:

- Minimize errors through Error Prevention Strategies.
- Automate error checking for CAD product development.
- Techniques to Reduce Rework for CAD Quality.

### Unit 2: Facilitating Group Working through CAD Standardization:

- Standardized Drawing Practices.
- Drawing Preparation Methods for CAD Productivity.

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## Unit 3: Effectively Using the Latest CAD Tools and Innovations:

- Use of Scanning for CAD Work.
- Digitization of Paper Drawings for Advanced CAD Modeling.
- Advanced Techniques in Modeling for CAD Innovations.

## Unit 4: Methodology for Compatibility with Future Intelligent CAD Systems 1:

- Preparing for Future CAD Upgrades.
- Transition from one CAD Software to Another for advanced CAD technologies.
- Ensuring Compatibility with Electronic Document Management Systems.

## Unit 5: Methodology for Compatibility with Future Intelligent CAD Systems 2:

- Ensuring Drawings are Suitable for Serving as Base Drawings to input Intelligence into them.
- Bill of Material Design Analysis Techniques for CAD Productivity.
- Application of GIS Type Programs in CAD Product Development.