Introduction

This program provides CAD Operators and Engineers with the essential understanding and tools needed to ensure Quality Assurance, improve Productivity, and leverage Innovative Methodologies in CAD systems.

Throughout this advanced CAD innovations and productivity course, participants will explore work methodologies, tools, accessories, and customizations across multiple CAD platforms. The course is not tied to any specific CAD software, making it widely applicable to professionals using AutoCAD, Microstation, or other advanced CAD systems.

For Operators, Checkers, Engineers, and Supervisors, the challenge is often not about creating good drawings, but rather handling the time-consuming CAD drafting errors that are difficult to detect, correct, or redo. Many of these errors can be avoided with proper training, and this course focuses on strategic considerations for improving Productivity, ensuring accuracy, maintaining standardization, and conducting quality inspections in CAD.

Course Outline

Unit 1: Productivity Methods in CAD

- Minimize errors through Error Prevention Strategies.
- Automate error checking in CAD product development.
- Techniques to reduce rework and improve CAD quality.

Unit 2: Facilitating Group Working through CAD Standardization

- Standardized Drawing Practices.
- Drawing Preparation Methods for enhancing CAD productivity.

Unit 3: Effectively Using the Latest CAD Tools and Innovations

- Use of scanning technologies for CAD work.
- Digitization of paper drawings for advanced CAD modeling.
- Advanced modeling techniques for CAD innovations.

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

- Preparing for future CAD upgrades.
- Transitioning between different CAD software for advanced 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 for inputting intelligence.

- Bill of Material Design Analysis Techniques to enhance CAD productivity.
- Application of GIS-type programs in CAD product development.