MAWA EVENTS

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AUTOCAD CIVIL 3D LAND DEVELOPMENT TRAINING

"Design, Model, and Manage Land Development Projects with Precision Using AutoCAD Civil 3D."

Schedule

Venue (InHouse)	Fees
At Your Organization Premises	Ask For The Quotation

Introduction

Land development and infrastructure design demand accuracy, efficiency, and coordination between multiple disciplines. AutoCAD Civil 3D is a powerful civil engineering design and documentation software that enables professionals to plan, design, and manage land development projects with dynamic modeling tools and intelligent data workflows.

The AutoCAD Civil 3D Land Development Training course focuses on developing the practical skills needed to design roads, grading plans, drainage systems, and site layouts using Civil 3D's advanced capabilities. Participants will learn how to build intelligent 3D models, perform surface analysis, and manage project data efficiently, ensuring optimal design and collaboration across all project stages.

Objectives

By the end of this course, participants will be able to:

- Understand the core functionalities and interface of AutoCAD Civil 3D.
- Create and edit surfaces, alignments, profiles, and corridors.
- Develop comprehensive land development and site grading plans.
- Design and analyze stormwater and drainage systems.
- Perform volume calculations and earthwork analysis.
- Automate design documentation and annotation.
- Integrate Civil 3D with GIS and other CAD/BIM software.
- Apply best practices for project management and data control.

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Why Attend

As infrastructure and urban projects become increasingly complex, mastering AutoCAD Civil 3D is crucial for professionals in civil and land development sectors. This course provides hands-on experience in real-world design scenarios, equipping participants with the technical competence to deliver accurate, efficient, and sustainable development solutions. Whether you're a beginner or seeking to upgrade your Civil 3D skills, this training ensures you gain industry-ready expertise.

Target Audience

This course is suitable for:

- Civil Engineers and Land Development Designers
- Surveyors and Geomatics Professionals
- Urban and Infrastructure Planners
- CAD Technicians and Draftsmen
- GIS and Design Engineers
- Project Managers and Site Engineers
- Professionals involved in civil, highway, or infrastructure design

Individual Benefits

- Gain hands-on experience in advanced Civil 3D tools and workflows.
- Improve efficiency in design, drafting, and documentation.
- Learn to create accurate 3D models and design data management systems.
- Enhance problem-solving and analytical design skills.
- Increase your professional value and employability in civil design projects.
- Develop confidence in applying Civil 3D for real-world land development tasks.

Organizational Benefits

- Streamline design workflows and improve project accuracy.
- Reduce project turnaround time and minimize rework.
- Ensure consistent design standards and documentation practices.
- Enhance collaboration between engineering, surveying, and planning teams.
- Support sustainable land development through precise modeling and analysis.
- Build in-house expertise for infrastructure and site development projects.

Instructional Methodology

The training employs a practical, project-based approach through:

- Interactive software demonstrations and guided exercises
- Real-world design case studies
- Step-by-step tutorials and instructor-led modeling sessions
- Group design workshops and collaborative exercises
- Assignments focused on practical land development challenges
- Continuous feedback and Q&A sessions for individual improvement

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Course Outline

Module 1: Introduction to AutoCAD Civil 3D Interface and Project Setup

Module 2: Creating and Editing Surfaces – Contours, Breaklines, and Boundaries

Module 3: Alignments, Profiles, and Corridor Modeling

Module 4: Land Grading, Parcel Design, and Site Layout Planning

Module 5: Stormwater and Drainage Design Fundamentals

Module 6: Pipe Networks and Hydrological Analysis

Module 7: Earthwork Calculations and Volume Reports

Module 8: Annotation, Labeling, and Plan Production

Module 9: Data Management, Sharing, and Collaboration Tools

Module 10: Capstone Project – Comprehensive Land Development Design Using Civil 3D

Certification

Upon successful completion, participants will receive a Certificate in AutoCAD Civil 3D Land Development, acknowledging their expertise in land design, grading, and infrastructure modeling using the industry's leading civil design software.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation's unique goals.

In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**

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