

AutoCAD Civil 3D 2009

Designing Intersections and Cul-de-Sacs

Courseware Description

Students use AutoCAD® Civil 3D® 2009 to complete the engineering tasks on an intersection and cul-de-sac design. The courseware guides students through one possible design process from the examination of existing site conditions to a final design solution. The primary focus is to teach students how AutoCAD Civil 3D 2009 can be used as a tool to perform common engineering tasks in the modeling and design process with greater accuracy and speed.

Suggested Course Duration:	1 day
Pages:	134
Trial CD:	No
Onscreen Exercises Included?	No

Objectives

The primary objective of this courseware is to teach students the recommended workflows and basic skills needed to create, model, and modify intersections and cul-de-sacs in AutoCAD Civil 3D 2009. After completing this course, students will be able to work with the design process.

Who Should Attend

This courseware is designed for experienced civil engineers and designers with a firm grasp on the fundamental features of AutoCAD Civil 3D.

Prerequisites

Before using this courseware, students should have completed the *AutoCAD Civil 3D 2009 Essentials* course or have in-depth knowledge of AutoCAD Civil 3D features and functionality. In addition, students should have working knowledge of the following:

- Civil engineering processes and terminology.
- Microsoft® Windows® XP or Microsoft® Windows® 2000.

Course Outline

Creating Cul-de-Sacs

- Designing Cul-de-Sacs
- Modeling the Main Road
- Designing a Cul-de-Sac Bulb
- Creating a Corridor Surface and Cul-de-Sac Island
- Revising the Cul-de-Sac and Rebuilding the Model
- Preparing to Plot the Cul-de-Sac

Creating Knuckles

- Designing Knuckles
- Preparing for Knuckle Modeling
- Modeling the Knuckle
- Revising the Knuckle

Creating an Intersection: Peer Roads

- Designing an Intersection for Peer Roads
- Designing Intersection Curb Returns
- Completing the Peer Road Intersection Model

Creating an Intersection: Side Street Joins Main Road

- Designing an Intersection for a Side Street and Main Road
- Designing Intersection Curb Returns
- Finalizing the Intersection Model

Note: The suggested course duration is a guideline. Course topics and duration may be modified by the instructor based upon the knowledge and skill level of the course participants.