AVIPLAN | Public Online Training

AviPLAN Essentials | Aircraft Path Simulation and Parking

An introduction to aircraft and vehicle path simulation, jet blast impact, and parking commands

Who should attend?

Recommended for users working with, or interested in, any AviPLAN product

Duration

4 hours total (2 hours/day)

Prerequisites

- A basic understanding of AutoCAD®, MicroStation® or BricsCAD®
- A sound understanding of airport/airside planning concepts

Why choose this training format?

- Easy to join online instructor-led sessions from any location, minimizing travel and scheduling conflicts
- Scheduled sessions offer a clear timeline, helping participants stay on track
- Access to training materials, enabling reinforcement of learning
- Reduced travel and accommodation make this format a budget-friendly solution

Course Content

Introduction

- General introduction

Settings

- Defining default drawing settings, CAD-layers, working units and regulations
- Creating, saving and applying drawing settings as templates
- User Preferences; Creating user-defined Airplane labels

Drawing Manager

Jet blast colors

- Selecting color schemes
- Creating and sharing templates

Clearance Box offsets

- Defining values
- Creating and sharing templates

Park command

- Overview of the Select Object dialog; Sorting, filtering and selecting the right aircraft or vehicles
- Insertion points, selecting and setting offsets
- Insertion methods; FreeInsert, Insert on Target and Insert Parallel to Target
- Application of airplane side and font views in design workflows
- Controlling element display; layers, colors, fills, transparencies, clearance envelopes, jet blast etc.

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Park command cont.

- Session layer vs element layers; structuring the AviPLAN/CAD environment for optimized use
- Saving and applying element property templates
- Saving, reopening and managing your design sessions
- Saving, moving, copying, reopening, and deleting sessions
- Simple stand design using change object and save as
- Interactively creating and applying airplane configurations

Configure Airplane command

- Creating, custom service arrangements
- Configuring and adding Service points, Jacking points or Tie-down points
- Configuring user-defined airplane Labels

Data Manager command

- Saving and sharing user defined drawing settings, objects and session property templates

Path command

- Understanding program limitations and assumptions
- Simulation speed settings and principals
- Understanding turning dynamics, effective steering angles, steering limits, and options
- Path building theory, and best methods to assist more realistic movement results
- Path 'sections' vs 'segments' explained
- Choosing the best method to start and construct swept paths for aircraft and vehicles
- Options to place objects along a path to best interpret and display problem areas
- Learning how to alternate between construction methods to best follow CAD guidelines
- How to increase accuracy by starting/ending simulations via SmartTarget
- Creating vehicle/airplane combinations
- Pushback functionality and best practices
- Splitting constructed paths into sections for more detailed analysis and varied element display
- How to edit constructed paths
- Creating and understanding reports

Homework

- The instructor demonstrates various case study scenarios during the course. Participants receive limited-time access to the case study drawing files and data sets used in the course. This enables participants to revisit the material and replicate the demonstrated case studies at their own pace to support continued learning.

Contact Us

To register or request additional information, please contact your Account Manager or email infoaviation@transoftsolutions.com