Design

Open Pit Metals

TRAINING MODULE PROFILE

PROGRAM	DURATION	DELIVERY	MODULE ID
	1 day		3.02

The Design for Open Pit Metals module builds on the theories covered in the Deswik.CAD Essentials training and focuses on the more common tools and functions in Deswik.CAD used for Open Pit Metals design and analysis.

The training mainly focuses on the Pit Design tool and uses a sample block model to design a three cutback open pit design. The training also includes the importing of Whittle shells used to maximize the pit design to the block model.

The training also covers dump design using the Pit Design tool. Once the dumps and the pit have been designed, the training concludes with designing title blocks and plots.

Project Start Up

- Importing data
- Creating filters, global constants, and legends
- Importing and viewing block models
- Querying block model properties

Pit Design Tool

- Setting up and creating rules for ramps, berms, and faces
- Creating directional ramps
- Creating graded and flat switchbacks
- Modifying ramps, berms, and face strings
- Generating surfaces representing the designed pit

Attribute Assignment

- Assigning attributes manually
- Use bulk processing rules to assign attributes to benches
- Label bench polylines for plotting

Creating Solids and Interrogation

- Generate solids representing the pit shell
- Validating solids and surfaces
- Cutting solids to surfaces
- Querying solids volume
- Batch interrogation of block models

Dump Design

- Using the Pit Design tool to create dump reserves
- Dump ramp design
- Cutting dumps to surfaces
- Querying dump solids volume

Plotting

- Creating and editing title blocks
- Creating plane definitions
- Inserting and modifying layouts and viewports
- Exporting design data

Design for Open Pit Metals

Training Pathway

1.01 Deswik.Getting Started	1.02 Deswik.CAD Essentials	3.02 Design for Open Pit Metals
ONLINE, 30 minutes	ONLINE, 1 day	CLASSROOM, 1 day
Prerequisites	Prerequisites	Recommended

To be done immediately following the prerequisite modules.