Trimble Business Center

Heavy Civil Edition (HCE) Class Outline

Introduction

- **How many have used BC-HCE?**
- **What is your background in Trimble based software?**
- **Quick Intro around the room**
- **Rules of the class**

Start Page Icons

- **What do they mean, why the difference?**
- **Tool Command Sets**
- **Open a new job**
- **What are we looking at?**
    - **Title Bar**
    - **Main menu bar**
    - **Docking area for icons**
    - **Tabs**
    - **Panes**
    - **Status Bar**
- **File / New Project**
    - **Units**
    - **Gridlines**
    - **Common docked panes**
    - **How to combine into one docked pane w/ tabs**
    - **Coordinate window**
    - **Orange boxes around icons**
- **Setting up a Template**
    - **Company info**
    - **User info**
    - **Coordinate system** – how to change, what to change it to, do you need it set up
    - **GEOID Model** – how to change, what to change it to, do you need it set up
    - **Units**
    - **View – set 3D Display to solid lines – option to speed up program**
    - **Feature code processing**
- **Tools – Options**
    - **Setting background color, aperture size, highlight color, etc**
- **Save Project as Template**
    - **Type name / Set as Default**
    - **Close project – new project –** Why? Issues with saving on a template?
    - **Set up your template to suit your needs**

Importing Data

- **File / New Project**
- **File / Import OR Select icon**
- **Close command after import button**
- **Three different ways to import**
- **Files to import**
- **Difference of coordinate systems**
- **Notice the symbol for import**
- **Files to import**
- **Import Format Editor**
- **Import symbol (again)**
- **File to import**
- **View Filter Manager**
- **Open layers, show commands –** notice some layers have no data?
- **Data Prep – Project Clean up**
- **Viewing data**
- **Import files into new project**

COGO Snap Options

- **Benefits**
- **Change color layer for pads**
- **Show snap feature for moving Pads**
- **What other ways could the pads be moved?**
- **Using COGO Snaps**

Creating a Surface

- **Layers** – All off, select points
- **Surface – New Surface**
- **Surface slicer view**
- **Create surface profile**
- **3D View** – show tab option, as is, split horizontal view, split vertical view
- **Editing a surface**
- **Running reports**
    - **Reports – Surface Information Reports**
    - **Alignment Geometry Report**
    - **Reports – Alignment Geometry report – 5th street**
- **Calculating Earthwork Volumes**
    - **Reports – Earthwork Report**

Working with Lines

- **Deleting excess lines**
- **Deleting part of a line**
    - **Line – Delete Line Segment**
    - **Creating Linestrings**
    - **Joining lines**
    - **Adding Elevations**

Data Prep

- **Preparing Data**
- **Start Page Data Prep tool icon**
- **View Filters**
- **Viewing Options**
- **Isolate Layer or Right click**
- **Moving data to 3D**
- **Create Points from spot el**
- **Copying and offsetting objects**
- **Moving and creating a polyline**
- **Transforming a pad**
- **Elevating contours**
- **Elevating pads**
- **Elevate streets**
- **Create a 3d surface**

Working with Surfaces

- **Open controlling surface data**
- **Creating contours**
- **Densifying a surface**
- **View Filters – Raw Data – RTK Vectors**

Takeoff Calculations

- **Categorize takeoff layers**
- **Associate site improvement material with takeoff layers**
- **Area of Interest**
- **Topsoil Stripping and Replacement**
- **Strata and Drill holes**
- **Reports**

Working with Field Data

- **Start Page – Field Data**
  - o **Field Data < Job Site Manager**
  - o **Site Settings**
  - o **Add a controller**
  - o **Editing existing data**
  - o **Creating a job site design**
  - o **Writing a work order**
  - o **Importing work results**
  - o **Running reports**
  - o **Resolving conflicts**
  - o **Adding external designs**

For any questions or to register, please contact:

Patrick Bulger TOPS Project Coordinator
Office: 623-776-9546 ext. 15
Email: patrick@takeoffpros.com