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Autodesk
Authorized Training Center

Autodesk
Premier Solutions Provider

Civil 3D Training Placement Evaluation

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Evaluation by: _____ *on* _____
Instructor *Date*

Recommended for Civil 3D Level 1 _____, *Level 2* _____, *Specialized* _____.

Notes: _____

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Civil 3D Placement Evaluation

The intent of this evaluation is to gauge your knowledge of AutoCAD Civil 3D software to insure that Mid-West CAD can recommend the right AutoCAD Civil 3D training course to meet your needs and ability. Placement in the proper level of study will not only maximize your educational experience, but will allow the course to flow at an even pace for all students. The questions on this evaluation are based on AutoCAD Civil 3D versions thru AutoCAD Civil 3D 2012. This evaluation is not meant to measure a person's employability and Mid-West CAD is not responsible if used in this manner.

(NOTE: It is assumed that the Operator has a prior knowledge of 2D drafting. This evaluation is not designed to test drafting ability, only AutoCAD Civil 3D knowledge.)

INSTRUCTIONS:

Answer all questions as indicated by circling the correct answer. If you encounter a question for which you do not know the answer, place a slash (/) thru the question number. **It is intended that this evaluation be taken without the use of AutoCAD Civil 3D or other reference materials.** Some questions may have more than one correct answer so select all that you believe to be correct. Please do not take the exam with a red pen or pencil.

Your current level of knowledge:

What, if any versions of Civil 3D do you have experience with?

Earlier Version: _____ Civil 3D 2008 2009 2010 2011 2012

How long have you been working with Civil 3D?

0-6 months 6-12 months 12-18 months 18-24 months
24+ months

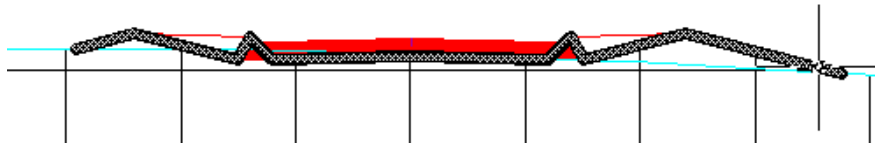
What is your Civil 3D training background?

None Self-taught On the job Vo-Tech
College Training Center

On a scale of 1 to 10, 10 being highest, how would you rate your operating system command knowledge?

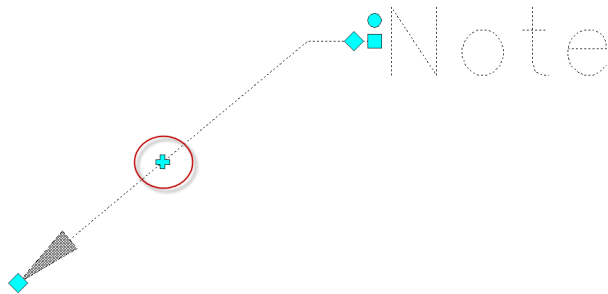
- a. Windows XP 1 2 3 4 5 6 7 8 9 10
- b. Windows Vista 1 2 3 4 5 6 7 8 9 10
- c. Windows 7 1 2 3 4 5 6 7 8 9 10
- d. Other 1 2 3 4 5 6 7 8 9 10 What System?

1. How do you edit a single alignment station label?
 - a. Through the Alignments>Edit Station Labels menu, pick the label to edit.
 - b. Right-click on the alignment, pick Edit Station Labels, pick the label to edit.
 - c. Select the label, right-click and pick Edit...
 - d. <Ctrl>+Select the label, right-click and pick Edit Label Text...
2. What methods are available to you for creating Feature Lines? [Select all that apply]
 - a. Use the Create Feature Line command
 - b. Convert an existing polyline
 - c. Import from Land Desktop
 - d. Extract a Corridor Feature Line
 - e. Create from an XREF
3. You can create alignment entities using “Best Fit” commands.
 - a. True
 - b. False
4. The thick line represents a datum surface created from Corridor Links. How could this surface be corrected to follow the correct links?



- a. Fix the surface through the Surface > Edit Surface menu.
 - b. Fix the corridor through the View/Edit Corridor Sections menu.
 - c. Manually redraw the surface in cross section view.
 - d. Apply Overhang Correction in the Corridor Properties dialog box.
5. You can import subassemblies into the drawing from XML subassembly sets.
 - a. True
 - b. False
 6. How do you display contour lines using 1' and 5' intervals?
 - a. Change the contour style to represent 1' and 5' intervals.
 - b. Edit the state of the surface layers, turn on the intervals needed.
 - c. Through the Surface Style dialog box, Contours tab
 - d. You have to rebuild the surface with 1' and 5' contour intervals.
 7. Do you have to manually create all alignments and profiles for an intersection?
 - a. Yes
 - b. No
 8. Alignments are categorized into Centerlines, Offsets, Curb Returns, and Misc..
 - a. True
 - b. False

9. What does the circled grip do in the label below?



- a. Adds a new leader.
 - b. Lengthens the leader.
 - c. Adds a vertex to the leader.
 - d. Adds a new text object.
10. The Section View Wizard contains options for plotting volume tables along with section views.
- a. True
 - b. False
11. How do you add Station/Elevation Labels to Profile Views?
- a. With the Profile View Label Set
 - b. It's an option that needs to be selected when creating Profile Views.
 - c. Annotate tab > Labels and Tables panel > Add Profile Labels command.
 - d. With Note Labels with Referenced Text.
12. You can import raw survey data directly from a data collector into the drawing.
- a. True
 - b. False
13. Where do you set the default style for **LAYOUT** profiles?
- a. In the feature settings dialog box for Profiles
 - b. In the drawing settings dialog box
 - c. In the Add Profile by Layout command settings dialog box
 - d. You cannot define a specific style for Layout Profiles.
14. How would you sub-divide a parcel if the boundary angle and parcel areas were known?
- a. The Slide-Angle Create method using Automatic mode.
 - b. Offset the original boundary line until all parcels have boundaries.
 - c. Using the Sub-Divide dialog box and specifying the new angle and area.
 - d. You have to sub-divide parcels in Land Desktop and import them into Civil 3D.
15. The Intersection Design Wizard will automatically create a corridor model.
- a. True
 - b. False

16. You must set targets for every region in a corridor model.
 - a. True
 - b. False

17. When designing a corridor model, what objects are available to use as target objects?
[Select all that apply]
 - a. Survey Figures
 - b. AutoCAD lines
 - c. Polylines
 - d. Feature Lines

18. How are Pipe and Structure Part Lists created?
 - a. Through the Part Builder application.
 - b. Through the Pipes>Pipe Network Properties dialog box.
 - c. By selecting Pipe and Structure types and sizes from the Pipes Catalog.
 - d. By listing the Pipes and Structures in the drawing.

19. How do you show Pipe Network data in an existing Profile View?
 - a. Manually draw the Network in the Profile View.
 - b. Select the Pipe and right-click, pick Draw Pipe Network in Profile View
 - c. Resample the data used to create the Profile View
 - d. Existing profile views need to be recreated to show new Pipe Networks

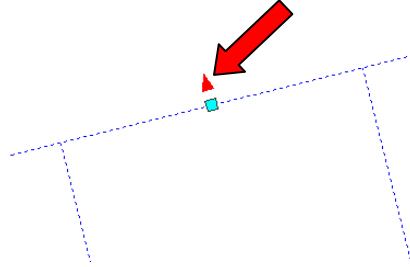
20. How do you label Northing/Easting values?
 - a. Export to Land Desktop, create the label, and re-import into Civil 3D.
 - b. Modify a Spot Elevation label style to display Northing/Easting values.
 - c. Add a Civil 3D Note Label and modify it with the correct values.
 - d. Use the Coordinate tracker to get the coordinates, then use the Export to Drawing command.

21. What is the procedure when rotating a single Civil 3D point?
 - a. Select the point, select the Rotate Grip and either enter the angle at the command line or move the grip to the desired angle.
 - b. Use the Rotate Points utility found in the Points>Point Utilities>Rotate Civil Points. Enter the Rotation angle in the labeled box, pick OK.
 - c. Add the point to its own point group. Rotate the Point Group through the Overrides tab of the Point Group Properties dialog box.
 - d. Specify the point to be rotated using the Description Key file before importing the point into the drawing.

22. How do you keep a surface created from a corridor or grading object from updating when the corridor or grading object is modified and rebuilt?
 - a. Uncheck the Rebuild Automatic option.
 - b. Export the surface via LandXML and re-import.
 - c. Create a Detached Surface
 - d. Set the Surface Update Mode to Static

23. What do Shape styles control?
 - a. The display of closed shapes.
 - b. The display of shapes within a subassembly.
 - c. The boundary line display of a subassembly.
 - d. The display of Corridor Shapes.

24. What is the function of the arrowed (triangle, top) pipe grip?



- a. To extend the pipe to the nearest structure.
 - b. To connect to another pipe
 - c. To lengthen or shorten the pipe along its existing bearing.
 - d. To connect to an existing structure.
25. Where do Alignment Marker Styles come from?
- a. The Settings tab > Alignments > Alignment Marker Styles
 - b. The Settings tab > Marker Styles > Alignment Marker Styles
 - c. The Settings Tab > General > Multipurpose Styles > Marker Styles
 - d. The Alignment Marker Set
26. You can safely relocate profile views using the AutoCAD Move command.
- a. True
 - b. False
27. What are Sample Line Groups?
- a. A collection of Sample Lines used to sample profile data.
 - b. A collection of breaklines.
 - c. A collection of Sample Lines that sample the same data along a specified station range on an alignment.
 - d. A collection of Sample Lines that determine section placement in the drawing.
28. Are break-lines allowed to cross?
- a. Yes
 - b. No
29. You can update a Pipe Network by modifying pipes/structures shown in a Profile View.
- a. True
 - b. False
30. What are View Frames?
- a. Special Viewports that show up in model space.
 - b. Plan and Profile view alignment tools used in Plan Production.
 - c. Polylines in the drawing that border AutoCAD views.
 - d. Easily manipulated 3D views.

31. What View display options are available in object styles?
- Plan, Profile
 - Plan, Elevation
 - Plan, Model, Section
 - Standard or Custom
32. How do you change a single corridor cross-section?
- Single cross sections cannot be modified after the corridor has been built.
 - Create a new assembly with the proper modifications and insert a new region in the corridor using the newly created assembly.
 - Single cross sections are modified using the Modify Assembly command and assigning a single station value to the modification.
 - Use the View/Edit Corridor Sections command and override the desired design value(s) in the expanded menu.
33. Section Views can display XRef'd corridors and surfaces.
- True
 - False
34. What must be set on the alignment before any Superelevation Data can be configured?
- Curve Radii
 - Profile Elevations
 - Design Speeds
 - Station Equations
35. By default, when an alignment is lengthened in Civil 3D, what happens to the profile?
- Nothing, the profile needs to be recreated if the sampled alignment or surface changes.
 - It becomes "Out of Date" and must be rebuilt to reflect the changes.
 - It disappears from the drawing and must be re-inserted into the drawing to reflect the changes.
 - It is updated automatically to reflect changes.
36. When would you use an Assembly Offset?
- When designing a split roadway.
 - To duplicate an existing Assembly.
 - To place turning lanes in a corridor.
 - To show offset distances in section views.
37. Pipes and structures can be edited with grips graphically or by using the Pipe Network Vistas.
- True
 - False
38. What is the purpose of the Toolbox tab within the Toolspace Palette, other than generating reports?
- To load custom tools and utilities within Civil 3D.
 - To fix corrupted drawings.
 - To fix corrupted drawing objects.
 - Reporting is the only function available to the Toolbox.
39. Grading Group Volumes can be balanced.
- True
 - False

40. What is the purpose of the Water Drop command?
- To determine the slope of a surface.
 - To determine drainage on a surface at specific areas.
 - Civil 3D does not have a Water Drop feature.
 - So that when rendered, water surfaces look as if it's raining.
41. When using Pipe Rules, what is the easiest way to reset a pipe network according to a rule set?
- Select the pipe network and use the Apply Rules command.
 - Select the rule set and drag it over the pipe network in the drawing.
 - You cannot apply pipe rules after the network has been drawn.
 - Manually edit the network in accordance with the rules you choose.
42. How do you avoid a point being accidentally moved or deleted?
- Keep that point out of the drawing
 - Lock the associated point group.
 - Lock the point.
 - Lock the layer(s) the point is on.
43. What are the three types of segments associated with Alignments, pertaining to Tangents and Curves?
- Free, Fixed, Hidden
 - Hidden, Fixed, Associative
 - Floating, Associative, Fixed
 - Free, Fixed, Floating
44. What style is used to determine how assembly components are displayed?
- The Subassembly style.
 - The Assembly style.
 - The Corridor style.
 - The Code Set style.
45. Layout tools and the Add Labels dialog box can be "pinned" in place throughout the drawing session.
- True
 - False
46. Where do you change the labels associated with sections?
- In the Sample Line Group Properties.
 - Right-click on the section, pick Edit Labels...
 - In the Section Style.
 - Through the Sections > Edit Labels... menu.

47. Shown below next to a Surface icon, the arrowed triangular icon indicates what when shown in the Prospector tab of Toolspace?



- a. That the object is part of a project and cannot be modified.
- b. That the object is “Out of Date” and needs to be rebuilt.
- c. That another object in the drawing depends on this object.
- d. That no other objects in the drawing depend on this object.

48. What must be done before Object Previews will be displayed within the Prospector tab of Toolspace?

- a. Check the Object Viewer button in the Toolspace shortcut menu.
- b. Depress the Preview button at the top of the Prospector tab, right-click on the Parent Object within the Prospector tab and pick Show Preview from the shortcut menu.
- c. Right-click inside the Preview area, pick Show Preview from the shortcut menu.
- d. Object Previews cannot be shown within the Prospector tab.

49. How do you transform Coordinate zones in Civil 3D?

- a. Use the Map 3D coordinate tools.
- b. From the Transformation tab of the Drawing Settings dialog box.
- c. You cannot transform coordinates in Civil 3D.
- d. Use the AutoCAD Move and Rotate commands to correctly place your design at the new coordinate values.

50. The Toolspace preview area can also be used to modify Civil 3D points?

- a. True
- b. False