

LEARNING OBJECTIVES

After completing this lesson, you will be able to:

1. Edit the width of Polylines
2. Join Polylines
3. Convert Polylines to Curves
4. Convert a basic Line to a Polyline
5. Join Lines, Polylines, Arcs and Splines


LESSON 24

EDITING POLYLINES

The **POLYEDIT** command allows you to make changes to a polyline's option, such as the width. You can also change a regular line into a polyline and JOIN the segments.

Note: If you select a line that is NOT a POLYLINE, the prompt will ask if you would like to turn it into a POLYLINE.

1. Select the **POLYEDIT** command using one of the following:

Ribbon = Home tab / Modify ▼ panel / 

or

Keyboard = PE <enter>

Note: You may modify “Multiple” polylines simultaneously.

2. PEDIT Select polyline or [Multiple]: *select the polyline to be edited or “M”*
3. Enter an option [Close/Join/Width/Edit vertex/Fit/Spline/Decurve/Ltypegen/Undo/Reverse]: *select an Option (descriptions of each are listed below.)*

OPTIONS

CLOSE

CLOSE connects the last segment with the first segment of an Open polyline. AutoCAD considers a polyline open unless you use the “Close” option to connect the segments originally.



Open



Close

OPEN

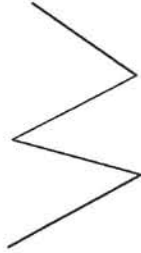
OPEN removes the closing segment, but only if the CLOSE option was used to close the polyline originally.

EDITING POLYLINES....continued

OPTIONS:

JOIN

The JOIN option allows you to join individual polyline segments into one polyline. The segments must have matching endpoints.



(4) Individual Polylines



**Joined
1 Polyline**

WIDTH

The WIDTH option allows you to change the width of the polyline. But the entire polyline will have the same width.

EDIT VERTEX

This option allows you to change the starting and ending width of each segment individually.

SPLINE

This option allows you to change straight polylines to curves.



Polyline



Splined

DECURVE

This option removes the SPLINE curves and returns the polyline to its original straight line segments.



Splined



Decurve


REVERSE

This option reverses the direction. The start point becomes the end point and vice versa.

JOIN COMMAND

I know this might seem confusing but this Join command is not the same as the Join “option” within the Polyedit tool. The Polyedit option can only be used to join individual polyline segments. This **Join** Command joins similar objects to form a single unbroken object.

1. Select the JOIN command using one of the following:

Ribbon = Home tab / Modify ▾ panel / 

Keyboard = J <enter>

2. Select the **Source** object.
3. Select the **objects to join to the source** object.

Seems easy, and it is, but there are a few rules regarding each type of object you must understand.

LINES

The Lines must be collinear (on the same plane) but can have gaps between them.



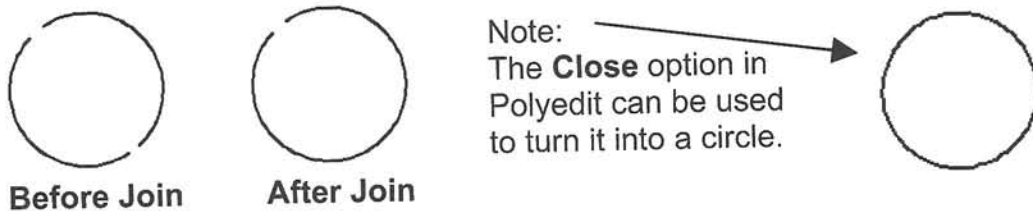
POLYLINES

Same rules as Lines except no gaps allowed between them.



ARC

The Arcs must lie on the same imaginary circle but can have gaps.



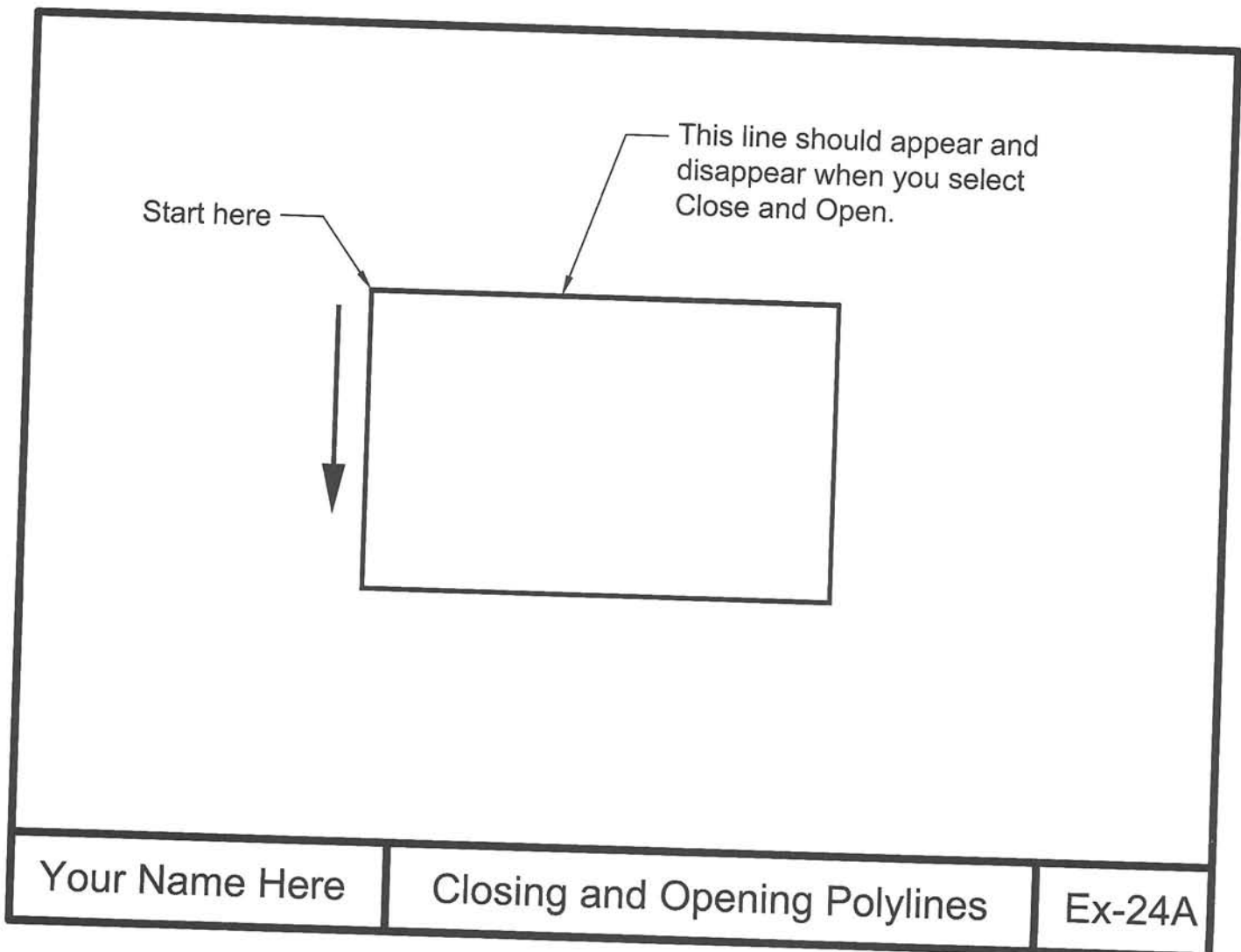
SPLINE

The Spline must lie in the same plane, and contiguous (end to end).
(You haven't learned this command as yet)

EXERCISE 24A

INSTRUCTIONS:

1. Start a **New** file using **Border A-2013.dwt**
2. Draw the Polyline as shown using layer Object line.
3. Using the Polyedit command, Close and Open the polyline.
4. Edit the Title and Ex-XX by double clicking on the text. Do not erase and replace.
5. Do not dimension
6. Save as **EX24A**
7. Not necessary to plot.



EXERCISE 24B

INSTRUCTIONS:



1. Start a **New** file using **Border A-2013.dwt**

Step 1.

2. Draw the Polyline 4" long and 0 width using layer Object line.

Step 2

3. Change the width of the Polyline to .50
4. Do not dimension
5. Edit the Title and Ex-XX by double clicking on the text. Do not erase and replace.
6. Save as **EX24B**
7. Plot using Page Setup **Class Model A**

Step 1. 	Step 2. 	
Your Name Here	Polyedit width	Ex-24B

EXERCISE 24C

INSTRUCTIONS:

1. Start a **New** file using **Border A-2013.dwt**

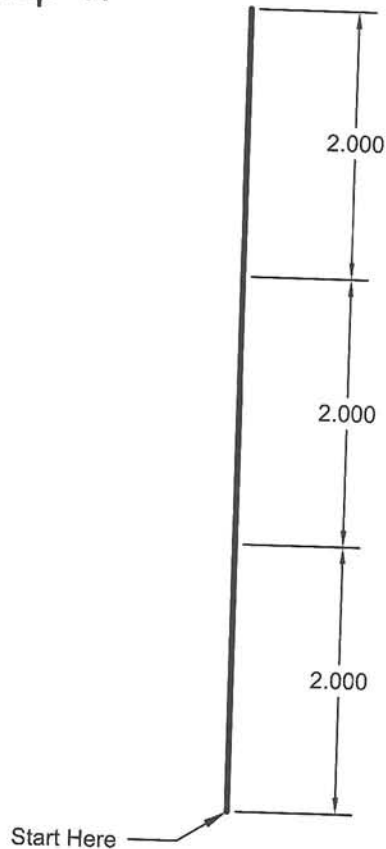
Step 1.

2. Draw 1 continuous polyline with (3) 2" Long segments.

Step 2

3. Select the Polyedit command and select the first segment.
4. Select the Edit Vertex option. (Notice the "X" marking the starting point)
5. Select the Width option and set Start to 1.00 and Ending to .50.
6. Select Next option (The "X" should have moved to the next segment.)
7. Select the Width option and set Start to .50 and Ending to .50
8. Select the Next option (The "X" should have moved to the next segment)
9. Select the Width option and set Start to 2.00 and Ending to 0
10. Select the Exit option and press <enter> to stop
11. Edit the Title and Ex-XX ; Save as **EX24C**; Plot using Page Setup **Class Model A**

Step 1.



Step 2.



Your Name Here

Change width with Edit Vertex

Ex-24C

EXERCISE 24D

INSTRUCTIONS:

1. Start a **New** file using **Border A-2013.dwt**

Step 1.

2. Draw the objects below using the **LINE** command **not polyline**.

Step 2

3. Select the Polyedit command and select the first segment drawn.

(Answer **YES** to "*Not a polyline, do you want to turn it into one?*")

4. Select the Width option and set the width to .10 (Notice only one segment changed)

5. Select the Join option.


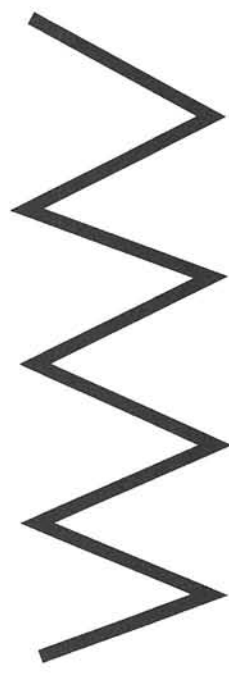
6. Select the remaining lines using a crossing window.

(Now the width should be constant for all lines)

7. Edit the Title and Ex-XX

8. Save as **EX24D**

9. Plot using Page Setup **Class Model A**

Step 1.	Step 2.	
		
Your Name Here	Polyedit Join	Ex-24D

EXERCISE 24E

INSTRUCTIONS:

1. Open **EX24D**
2. Select the Polyedit command
3. Select the Polyline
4. Select the Spline option
5. Edit the Title and Ex-XX
6. Save as **EX24E**
7. Plot using Page Setup **Class Model A**



Your Name Here

Spline

Ex-24E

Notes: