Using Corel Draw – Creating the Clock Dial

1. Open up the dial board file from the shared directory. This gives you the correct piece size and the shape for the dial board.



- 2. Start the dial by drawing the outside time ring. This is a 5.5" diameter circle with its center placed where the guidelines cross.
 - a. Use the ellipse/oval tool to create a random ellipse. Set line thickness to 2 pt (hairline will be a vector cut...you don't want to do this)
 - b. Adjust to 5.5" x 5.5" to create a 5.5" ring.
 - c. Then place the center of the circle at the intersection of the guidelines.

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3. If you are going to make a two or three ring style clock dial, use can now add a second ring at 5.25" and the third at 5" in the center of your dial. Make sure you change line thickness (I like 4 pt or 5 pt for the middle ring, and 2 for the inside ring)



- 4. Creating the minute markings
 - a. Draw a straight line from the top to the bottom of the outside time ring, using the 2-point line tool (change thickness to 1 pt)



- b. Copy the line and paste it 30 times using the paste button (now you will have 30 vertical lines, on top of each other)
- c. Select each line one at a time, and adjust the rotation or angle in 6 degrees increments for each minute line around the dial.



CorelDRAW X7 - I:\materials 1\bent clock\dial board bent 7.25x9 with minute whole lines.cdr

5. The hour markings are usually larger than the individual minute markings. The hour markings are at the multiples of every 5 minutes. I usually make them 4 pt, so they standout.





6. Delete the unwanted line segments using the virtual segment delete tool

- 7. Add .375" circle in center of clock dial
 - a. This is a Vector cut, so it's thickness should be hairline
 - i. This will cause the center circle to be vector cut instead of engraved, allowing for the movement shaft/hands to go through the dial.



- 8. Add text for numbers using the Text tool and type in the numbers.
 - a. Drag the number to the appropriate area
- 9. You can customize your dial as long as it has a professional appearance, some examples are below.
- 10. Save work on the I-Drive, and have your instructor check your work.
- 11. Engrave on the Laser system.







