

Chapter 10 – Lesson and Assignments

Assignments will be in the format of going through the step-by-step tutorials that will be assigned from the textbook.

Why this type of assignment is important:

Auxiliary views show us how to account for, and represent views that are ambiguous to the user. A straight line one view may appear to be longer in another in another view and a hole whose top looks like a perfect circle may look like an oblong or oval in another view. It is the responsibility of the designer to “reconcile” all the views so that the production technician will get it right the first time in accordance with the prevailing standards. Students would have covered Auxiliary Views in CADM100 by this time.

As more CAD Technology advances, the more the drawing tools that are included in the CAD software system. In AutoCAD, many of the design tools can perform the same functions but may save a couple of milliseconds here and there, depending on the set up and the good being manufactured in the industry.

Also, the step-by-step tutorial method of the textbook gives us the opportunity to venture into alternate tools that would prepare us for advanced CAD courses and for the CAD profession.

As you follow the steps, be sure mentally visualize how the steps relate to what was covered in CADM100.

The Assignment – The V-Block Design:

Follow all the steps in Chapter 10 to complete the following:

(Note: Only the titles are given, in case some students are using different editions of the same book).

Starting Up AutoCAD 2022 (or whichever one that you are using).

Setting up the Principal Views

Setting up the Top View

Using the Offset Command

Creating Object Lines in the Front View

Setting the Polar Tracking Option

Setting up an Auxiliary View

Aligning the Auxiliary View to the Front View

Creating the V-cut in the Auxiliary View

Creating the V-cut in the Front View and the Top View

Setting the Polar Tracking Option

Completing the Top View.

At this point, save and submit your work as CADM115 – Chapter 10 assignment by Your Name.