



Academic Activity Chapter 10

Manufacturing Engineering

Manufacturing engineers lay out product manufacturing processes. They plan the processes and the locations of all the machines, conveyors, and finishing equipment so production workers can use that production line safely and efficiently. Go online and research the production process of any product. Read at least three sources and record the website information for each citation on your assignment. It would be best to choose a simple product like a baseball bat, golf ball, food item, or clothing item.

- 1.** Choose the most complete source or flow chart image for your product and print a copy.
- 2.** Grid a poster board or use one or more large pieces of graph paper to create a large gridded paper. Provide a scale of 1 grid equals a foot or meter in the upper right hand corner.
- 3.** In the bottom right hand corner write your name legibly and under that name the process you chose.
- 4.** Create a scaled floor plan of the manufacturing equipment, conveyers, and finishing equipment that is described in the manufacturing process of your product.
 - a.** Keep in mind the type of equipment and how much space it might take up. Search the Internet for an image of the specific equipment to get an idea about size.
 - b.** The product has to move from one process to the next on conveyors or by some other means.
 - c.** Most items are packaged for sale on the same line they are produced on, and then have to be stored somewhere until they are shipped out to wholesalers or retailers.
 - d.** There has to be enough room for production workers to get around and operate the equipment.
- 5.** Staple, paper clip, glue stick, or tape your flow chart or process to the upper left hand corner of the back of your grid. Next to it, cite all of the resources you used including at least one website, and include the author and date of the last site update.