

Manufacturing the Future Lesson Plan #2
The Paper Industry: A Leader in Manufacturing in NEW
CD time is 5 minutes + 10 -15 minutes for discussion

Lesson Objectives:

1. To understand the history of manufacturing in Wisconsin was founded in the paper industry.
2. To increase the awareness of the impact manufacturing (specifically the paper industry) has on the NEW economy.

Key Points:

1. The paper industry in Wisconsin was born in 1848, three months before WI became a state.
2. Wisconsin has been the largest paper producing state in over 50 years.
3. Manufacturing thrives through increased productivity.

Vocabulary: (List of words with definitions to share with students prior to viewing video; ask students to listen for these words in this segment.)

1. Generation
A group of people that were born within a 20-30 year period.
2. Retirement
When individuals leave their job and choose not to work, often due to their age.
3. Regulations
The laws and rules written by local, state and federal government that a company must follow.
4. Lay-off(s)
An individual that is dismissed from the company he/she worked for not due to something wrong the employee did, but due to the company needing to eliminate their position due to either financial, economic or other circumstances.
5. Capital goods
Machines that are used to make other items for sale. For example: EMT International makes printers that are used to produce catalogs.
6. Productivity
The amount of product that a worker produces in a given amount of time.

Activity and/or Discussion Questions: (Select one activity or 2 discussion questions)

Activity ideas (Pick the activity of interest to your students)

1. In small groups, imagine a world without paper. What would a world without paper mean for you, your family, and our community?
2. Watch the two All-Star videos with people working in a paper manufacturer:
 - Tim Jadin – Mechanical Engineer: <http://www.manufacturingthefuture.com/video/tim-jadin-mechanical-engineer-1>
 - Mike Maciejewski – Maintenance Leader: <http://www.youtube.com/watch?v=3wiKOBLeLA>

Discussion Questions (Pick the discussion questions of interest to your students)

1. In the video, they discuss the concern that as people retire, there are not enough skilled workers to replace the retirees. Why is this a concern for manufacturing? Why should you be concerned about the lack of replacement employees?
Answer: When someone retires at a manufacturing company, often they leave with many years of experience, which is difficult to replace. Their knowledge is extensive that comes from on-the-job experience. In the next 5 to 10 years there are a significant number of people that will be retiring. If manufacturers cannot find people to replace these workers, they will need to turn business away or move to another area that has people who are interested in working in manufacturing. The concern for our region is if manufacturers are forced to move away, our economy will suffer. Manufacturers help support a community through jobs and paying taxes.
2. Why is it important for the government (and for us) to enforce regulations on water and air quality as it relates to manufacturing (and the paper industry)?
Answer: It keeps our environment clean and safe for us to live in.
3. Discuss this statement made in the video “the difference between old manufacturing and new manufacturing.” What does this mean?
Answer: The majority of manufacturing jobs is no longer manual, dirty and mundane work. Today’s manufacturing is leading the way with technology and innovation.

Follow-up for students (and parents):

1. NEW Manufacturing Alliance All Star magazine (direct students to Alliance’s website www.newmfgalliance.org) for future reference) and/or bookmark
2. Career Cruising
3. WISCareers
4. School counselor
5. PIE/Chamber Industry Tours
6. Boys & Girls Club
7. After School Programs

8. Job Shadow
9. Youth Apprenticeship
10. Technical college in your area

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