

Module F: Lesson Plan 17: Career and Education Planning

Topic: How It's Made...A Career

Standard(s): Students will:

- 2.0 Develop skills to locate, evaluate, and interpret career information.
- 4.0 Demonstrate employability skills such as working in a group, problem-solving and organizational skills, and the importance of entrepreneurship.
- 8.0 Demonstrate knowledge of technology and its application in career fields/clusters.

Length: One - Two class periods

Objective: Students will:

- Identify various items in their classroom that were manufactured.
- Describe what types of careers would be found in a manufacturing company.
- Research career opportunities.
- Identify educational requirements for careers in manufacturing.

Materials:

- Made in Florida website - www.madeinflorida.org
- Handout - *What is Manufacturing?* created by FLATE
- Handout - *Careers in Manufacturing* created by FLATE
- Sticky note pads

Description of Activity:

1. Divide students into teams of 2 or 3 students.
2. Have students look around the room, from their seats, and come up with a list of at least 3 items in the classroom that were manufactured and 3 items that were not manufactured.
3. Have one member of the team label the items they chose with sticky notes (have each team put their names on the sticky notes).
4. Have the teams explain the items they selected and discuss how they think the items were made.
5. Have each team select 1 item from their list.
6. Give each student a copy of *What is Manufacturing?* and *Careers in Manufacturing* created by FLATE.
7. Give teams 10-15 minutes to come up with, a) steps to make their items, for example, idea – design – put together (fabricate) – test – market – sell/distribute, b) what types of careers are available, and c) what type of companies they could work for.

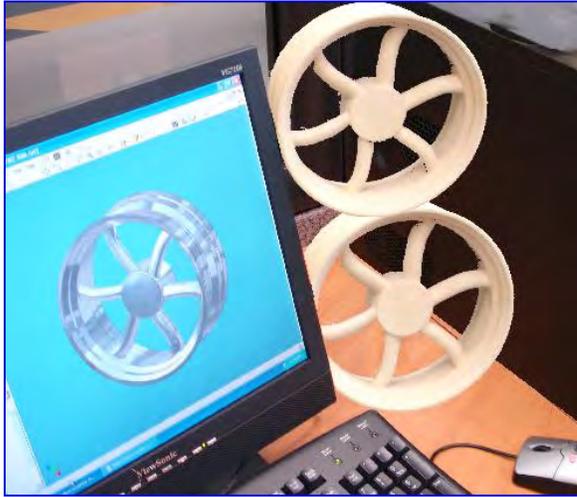
8. Have students individually write down two or more careers, from the handout(s), that they would like to know more about.
9. The homework assignment is to research the careers they chose. Select one career and complete a project. Students can find career information on the Made in Florida website (www.madeinflorida.org), under Career Pathways and Links.
 - The project must include:
 - Job Title
 - Companies they could work for
 - Educational requirements – High School, Associate’s Degree, Bachelor’s, etc.
 - Diagram showing their career path (see *What is Manufacturing?* handout, page 2).

Evaluation:

Students will be evaluated on quality and creativity of their career project, research ability, and demonstration of teamwork skills.

What is Manufacturing?

Discovering great careers in Florida



Manufacturing is the process of changing raw or processed materials into products people can use.

Many COOL careers that use your **imagination** and **skills** with the HOTTEST technologies to make better things for our world!

Statewide over **16,000 manufacturing** companies and **400,000 Floridians** make products you use everyday

Manufacturers make almost every product you use, from the rims you buy, to the jeans you wear, to musical instruments you play.



If you get satisfaction by making something, get excited about using new technology, or you work well with teams of people, then the manufacturing industry may be the place for you.



These are some manufacturing sectors

Aviation and Aerospace

Metals and Plastics

Medical Devices

Mining

Electronic Devices

Systems Engineering

Food, Paper, Beverage & Cosmetics

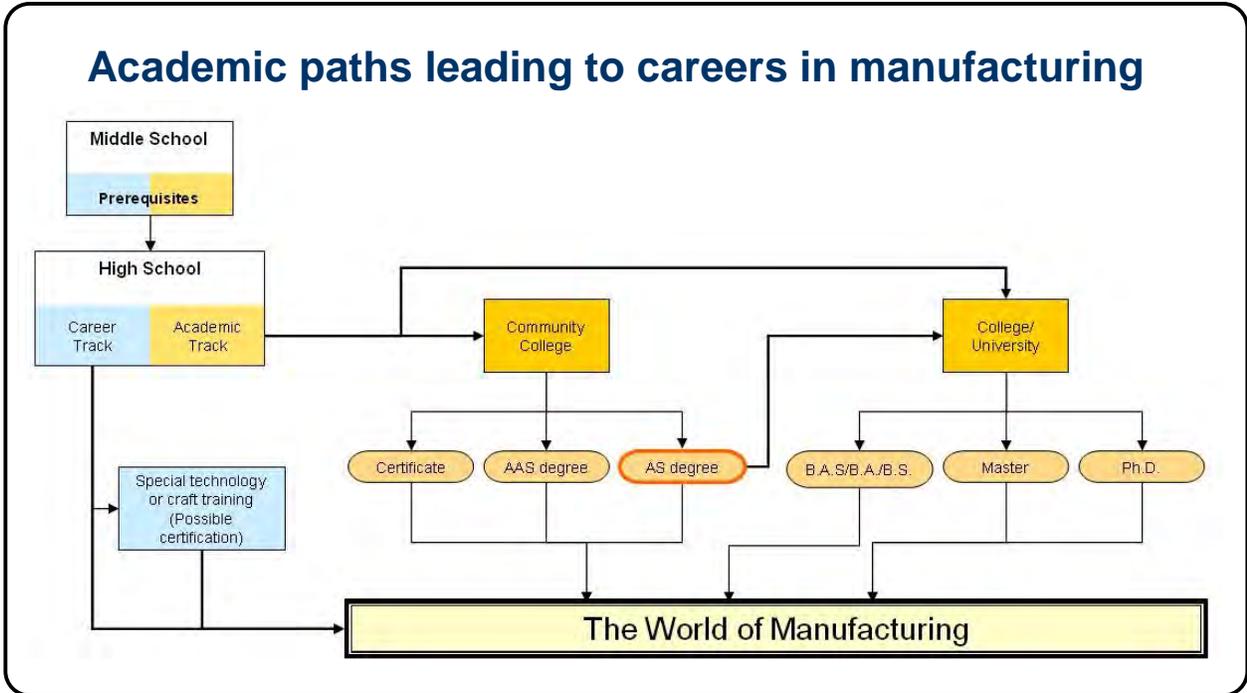
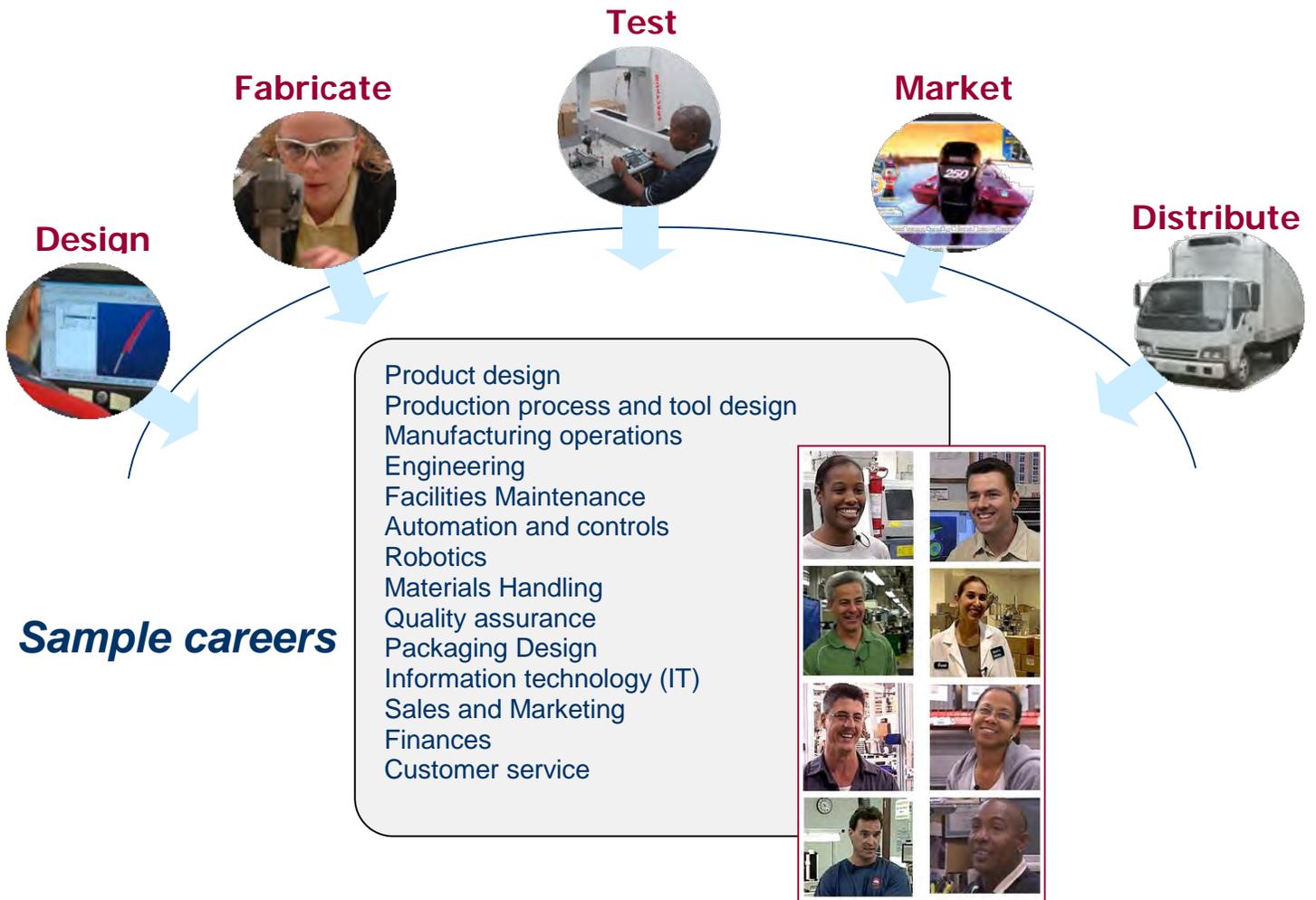
Transportation

Printing

Leisure & Entertainment

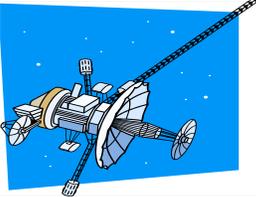


Which aspects of the manufacturing process might interest you?



Visit www.madeinflorida.org to learn more about careers in manufacturing!

Careers in Manufacturing

Industry		Companies
Aviation & Aerospace		CAE USA Technology Research Consultants Pall Aeropower Module F: Exploring Careers Lockheed Martin Aeronautics
Medical Devices		Lorenz Surgical Baxter Healthcare Corporation Promedica Boston Scientific
Transportation		Chris-Craft Industries Featherlite Mercury Marine Sensor Systems/Fisher Motors Cooper Tire and Rubber
Electronics & Electrical		Tampa Armature Works Universal Microwave Cypress Semiconductor Jabil Circuit, Inc. VLOC
Food, Beverage & Packaging		Florida's Natural Packaging Corporation of America Tropicana Ven-Tel Plastics
Metal Machining & Product Fabrication		Sun Hydraulics Norris Precision Manufacturing Vulcan Machine Hunter-Douglas
Leisure & Entertainment		Aladdin Equipment Company Walt Disney Companies Busch Gardens Tervis Tumblers Universal Studios
Product Design & Integration		Sims Machine and Controls L-3 Communications New England Machinery Poly Pack