

4th Grade Career Development
Activity #13: Manufacturing Careers
Estimated time: 30-45 minutes

National Career Development Guidelines Indicators

ED1 - Attain educational achievement and performance levels needed to reach your personal and career goals

- ED1.K7 - Recognize that your educational achievement and performance can lead to many workplace options
- ED1.K8 - Recognize that the ability to acquire and use information contributes to educational achievement and performance

ED2 - Participate in ongoing, lifelong learning experiences to enhance your ability to function effectively in a diverse and changing economy

- ED2.K3 - Recognize the importance of being an independent learner and taking responsibility for your learning

CM3 - Use accurate, current, and unbiased career information during career planning and management

- CM3.K2 - Recognize that career information includes occupational, education and training, employment, and economic information and that there is a range of career information resources available
- CM3.K4 - Identify several ways to classify occupations

CM4 - Master academic, occupational, and general employability skills in order to obtain, create, maintain, and/or advance your employment

- CM4.K4 - Recognize that many skills are transferable from one occupation to another

Goal:

Students will investigate careers in the **Manufacturing** Career Cluster.

Objectives:

- Understand that a career cluster is a grouping of occupations based on commonalities
- Recognize that the **Manufacturing** Career Cluster includes careers in planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.
- Investigate careers in the **Manufacturing** Career Cluster

Materials:

- 4th Grade Career Development Activity #13– **Manufacturing Careers: List of Manufacturing Occupations**
- Writing materials

Activity:

1. “Today we’re going to learn about some of the occupations in the Manufacturing Career Cluster. **A career cluster is a grouping of occupations based on things they have in common**, and today we’re looking at careers in the Manufacturing Career Cluster.”
2. “The **Manufacturing** Career Cluster includes careers in planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.” *Write this on the board.*
3. “The **Manufacturing** Career Cluster includes a wide array of jobs. For example, there are some jobs that deal only with fixing or repairing things. What things can you think of that may require you to call someone to help you repair it?” *Write responses on the board. Some possible responses: computers, TVs, cars. Possible teacher suggestions: home appliances, locks, watches.*
4. “There are also some jobs in this cluster that deal with building, creating, or producing, things. We use these things every day. What things do we use every day that you think are produced by people in their jobs?” *Write responses on the board. Some possible responses: cars, computers, TVs, clothes, appliances, toys.*
5. “There are many other jobs in manufacturing. Let’s look at a list of some.” *Distribute the **Manufacturing Careers: List of Manufacturing Occupations** handout. Discuss some of the jobs on the list. (Occupation definitions: www.onetonline.org/find/career?c=13&g=Go*
6. “Now that we’ve talked about some of the manufacturing occupations on the list, let’s think about the skills needed to be successful in these occupations.” *Write responses on the board. Discuss why their responses are important for people in manufacturing occupations. Possible responses: complex problem solving, critical thinking, repairing, active listening, tool selection, decision-making, equipment maintenance, installation, operation monitoring, quality control analysis.*
7. *Divide the class into five groups. Assign each group an occupation. Have each group develop a skit showing the skills and abilities that people in these occupations use. Allow time for groups to develop their skits.*
8. *Have the groups share their skits.*

Evaluation:

Students will be evaluated on their participation.

Handout #1

Manufacturing Careers: List of Manufacturing Occupations 4th Grade Career Development: Activity #13

Maintenance, Installation, and Repair Occupations

- Automotive Specialty Technicians
- Civil Engineering Technicians
- Computer, Automated Teller, and Office Machine Repairers
- Electric Motor Repairers
- Electrical Engineering Technicians
- Industrial Engineering Technicians
- Industrial Machinery Mechanics
- Inspectors, Testers, and Sorters
- Medical Equipment Repairers
- Precision Instrument Repairers
- TV Repairers
- Watch Repairers



Production Occupations

- Adhesive Bonding Machine Operators
- Bakers
- Cabinetmakers
- Chemical Equipment Operators
- Cutters and Trimmers
- Furniture Finishers
- Gem and Diamond Workers
- Glass Blowers
- Jewelers
- Machinists
- Metal Workers
- Millwrights
- Model Makers
- Molding and Casting Workers
- Ophthalmic Laboratory Technicians
- Patternmakers
- Potters
- Power Plant Operators
- Sewers
- Shoe and Leather Workers
- Team Assemblers
- Tool and Die Makers
- Welders, Cutters, Solderers and Brazers