Statewide Manufacturing Curriculum:

Contextualized Social Studies Module

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FOUNDATIONS FOR DESIGN
- ✓ Instruction emphasizes learning by doing through projects and simulations; therefore, the instructor is a facilitator or learning coach.
- ✓ Each module emphasizes communication, teamwork, and critical thinking.
- ✓ Content is contextualized for manufacturing professions and their programs of study.
- ✓ Learning outcomes often require learners to meet and interact with academic and manufacturing professionals, engage in collaborative and individual projects involving authentic materials and resources, visit manufacturing and academic facilities, and complete documents and writing tasks for career paths with the guidance of learning facilitators.
- ✓ Specific units within modules may serve as precursors for additional units within the module. Many lessons and units may be repeated and expanded from one module to another.
- ✓ Self-advocacy and continual self-assessment and self-monitoring are inherent to each module while students must be introduced to, required to meet with, and encouraged to consult with program coordinator as well as academic and employment professionals.
- ✓ Site visits to manufacturing and learning facilities, guest speakers, and conferences with employment and academic professionals are integral to the relevance and value of the program for students.

ASSUMPTIONS:
- ✓ Each agency or instructor who may use these modules or this program will adapt instructional strategies, content level of difficulty, learning activities and projects to meet the needs of the program's target population and adult learners of lower and higher academic levels.

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✓ Referenced resources, relevant internet links, learning activities (created, suggested, attached, or referenced) will be used, modified, or omitted based on student need and restraints of class time and resources.

✓ This curriculum will work in established internal partnerships within the academic community as well as external partnerships/relationships in the employment community.

✓ Units and lessons will be adapted to fit within varying contact hours of a program.

Module Description: The Contextualized Social Studies Module is designed to provide students with an understanding of the history and development of manufacturing around the world preparing them for the manufacturing workplace and/or post-secondary education.

i-Pathways Alignment with the Statewide Manufacturing Curriculum: The lessons identified in this document have connections with both i-Pathways and the intended learning objectives identified in the Statewide Manufacturing Curriculum. The i-Pathways lessons can be used to build background knowledge, reinforce content, or provide learners with additional practice in a specific skill development.

Module Objectives:

Students will:
- Demonstrate an understanding of the role of supply and demand
- Demonstrate an understanding of the role of science and technology in manufacturing
- Demonstrate an understanding of the history and current role of labor unions in manufacturing
- Demonstrate an understanding of workplace safety and government safety standards
- Demonstrate an understanding of the role of globalization in manufacturing

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Module Objectives:

Students will:

- Role-play supply and demand scenarios
- Write about events that influence manufacturing markets
- Determine how a manufacturing plant affects a local economy
- Describe the impact of technological advances on manufacturing
- Research and present information on child labor
- Serve as a management or union member to discuss contract negotiations
- Summarize workplace safety guidelines at a manufacturing facility
- Research and report on government workplace safety standards and codes
- Define and discuss the role of globalization on manufacturing
- Engage in work tasks to demonstrate the importance of lean manufacturing

Methods of Instruction

- Lecture
- Small and large group discussions
- Role playing
- Group presentations
- Online research
- Guest speakers

Methods for Evaluating Student Performance

- Individual and group presentations
- Written and oral summaries
- Peer evaluations
- Teacher designed rubrics
- Teacher observation logs

Module Overview

A. The role of supply and demand in manufacturing
B. The role of science and technology in manufacturing

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C. The history and current role of labor unions
D. Workplace safety in manufacturing
E. The role of globalization in manufacturing

Module Outline

1. The role of supply and demand
    A. The concept of supply and demand in manufacturing (Economics)
    B. The impact of various influences on the local manufacturing market (U.S. History, World History, Geography, Economics)
    C. Effects of a manufacturing plant on local businesses (Geography, Economics)

2. Role of science and technology in manufacturing
    A. Scientific discoveries as they affect technological advances in manufacturing (U.S. History, World History, Economics, Civics and Government)

3. History and current role of labor unions in manufacturing
    A. Child labor laws (Civics and Government, World History, U.S. History)
    B. Collective bargaining (Economics)
    C. Labor unions in politics (U.S. History)

4. Workplace safety
    A. Workplace safety guidelines of a local manufacturing facility (Civics and Government)
    B. The government's role in enforcing workplace safety standards (U.S. History, Civics and Government)

5. Globalization in manufacturing
    A. Globalization (Economics)
    B. Causes and effects of globalization (U.S. History, World History, Geography, Economics, Civics and Government)
    C. Lean manufacturing as a response to globalization (Economics)