

# Introduction to Advanced Manufacturing

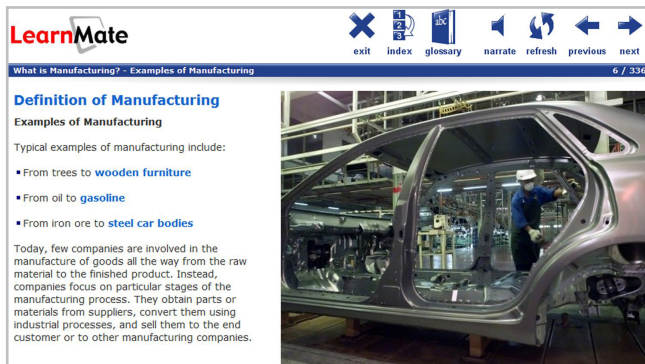
Introduction to Advanced Manufacturing provides students a comprehensive overview of principles, processes and career choices in manufacturing. Hands-on activities in career seeking and planning a manufacturing company culminate in a capstone project in which students follow all the steps of the manufacturing process to produce a product.

## Course Information

Type	Virtual
Languages	English
Hours of instruction	15

## Course Outline

- Introduction
- Careers in Manufacturing (Core)
- Seeking a Manufacturing Career (Activity)
- The Manufacturing Company (Core)
- Planning and Staffing a Manufacturing Company (Activity)
- Manufacturing Processes (Core)
- Computers in Manufacturing (Core)
- Automation in Manufacturing (Core)
- The Arrow Plane (Project)



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**Definition of Manufacturing**

**Examples of Manufacturing**

Typical examples of manufacturing include:

- From trees to **wooden furniture**
- From oil to **gasoline**
- From iron ore to **steel car bodies**

Today, few companies are involved in the manufacture of goods all the way from the raw material to the finished product. Instead, companies focus on particular stages of the manufacturing process. They obtain parts or materials from suppliers, convert them using industrial processes, and sell them to the end customer or to other manufacturing companies.



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**What is Manufacturing?**

**Definition**

The **manufacturing** process involves converting raw materials into finished goods, or assembling finished goods using industrial processes. This is usually done on a large scale.

**Advanced manufacturing** is defined by the National Council for Advanced Manufacturing (NACFAM) as making extensive use of computer and information technologies. These technologies are integrated with a high performance workforce in a production system capable of producing a mix of products in either large or small volumes.



## Foundations Skills Program

Foundation Skills courses deliver essential skills for technical careers, along with 21st Century skills like critical thinking, problem solving and collaboration skills.

- Foundations courses are 100% virtual on-line courses delivered through LearnMate, accessible anywhere, anytime.
- Some courses have optional hardware available

Introduction to Advanced Manufacturing includes LearnMate®, Intelitek's innovative e-learning platform. Self-paced interactive LearnMate content may be deployed stand-alone or through the robust learning management system (LMS). The LearnMate e-learning suite provides everything needed for the ultimate blended learning experience:

- SCORM-compliant interactive content
- Anytime, anywhere accessibility
- Student and class management
- Grade tracking
- Skill/competency reporting mapped to national academic skill standards

## Ordering Information

### Foundations Skills Curriculum

LM7 Content, Virtual, Intro to Advanced Manufacturing 77-3096-0000

### Foundations Skills Bundle:

Foundations Skills Virtual Content JM-FOUN-SKILLS

- Includes 12 Foundation Skills courses

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