



Course Syllabus

SKILLED TRADES MANUFACTURING

Code:	49557V	NCAA Approval:	No
Level:	High School	QM Certified:	No
Duration/Credit:	1.0 Credit/Year	Textbook:	None
Prerequisites:	None	Materials:	None
Standards:	Skilled Trades Manufacturing Standards	Technology:	VA Technology Requirements
Pacing Guide	49557V SkilledTradesMNFCT... 49557V Sem 2 Skilled Trades ...	Alignment Matrix:	Alignment Matrix

Course Introduction

Watch the [course introduction video](#) or read the [video transcript](#) for a brief introduction to the course.

Course Description

This course will introduce students to concepts and careers within the field of Advanced Manufacturing. Students will learn about the various skills needed to obtain an industry and trade job and will be better prepared for pursuing their own career in the future. The course discusses Personal Effectiveness Skills, Academic Skills, Workplace Skills, and Industry-Wide Technical Skills needed within the field of Manufacturing. After students have completed this course, they should have a better idea of possible career opportunities that are open to them in Career and Technical Education as well as the basic knowledge needed to pursue those careers.

Course Level Objectives

The objectives for this course include the following:

- 1.1 Interpersonal Skills
- 1.2 Integrity
- 1.3 Professionalism
- 1.4 Initiative
- 1.5 Dependability and Reliability
- 1.6 Adaptability and Flexibility
- 1.7 Lifelong Learning
- 2.1 Reading
- 2.2 Writing
- 2.3 Mathematics
- 2.4 Science
- 2.5 Communication – Listening and Speaking
- 2.6 Critical and Analytical Thinking
- 2.7 Basic Computer Skills
- 3.1 Business Fundamentals
- 3.2 Teamwork



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- 3.3 Customer Focus
- 3.4 Scheduling and Coordinating
- 3.5 Creative Thinking and Problem Solving
- 3.6 Checking, Examining, and Recording
- 3.7 Working with Tools and Technology:
- 3.8 Personal Health and Safety
- 3.9 Sustainable Practices
- 4.1 Manufacturing Process Design/Development
- 4.2 Operations Management
- 4.3 Maintenance, Installation, and Repair
- 4.4 Production in the Supply Chain/Supply Chain Logistics
- 4.5 Quality Assurance and Continuous Improvement
- 4.6 Process and Equipment Health, Safety, and Environment

Course Participation Information

There are other pieces of important information about your participation in a Virtual Arkansas course. This information can be found in your course in the Virtual Arkansas Program Syllabus.