

Name \_\_\_\_\_

Learner ID \_\_\_\_\_

School/College/University \_\_\_\_\_

## Sample Program of Studies

Cluster: Manufacturing

Pathway: Manufacturing Production Process Development

### Career Pathway Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Pathway Plan of Study (based on the Manufacturing Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. \*This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Manufacturing Production Process Development Pathway	SAMPLE Occupations Relating to This Pathway	
Interest Inventory Administered and Plan of Study Initiated for all Learners									
SECONDARY	9	English Composition	Algebra I	Earth Science	Social Studies 9		Introduction to Manufacturing Occupations	<ul style="list-style-type: none"> <li>► Design Engineer</li> <li>► Electrical and Electronic Technician and Technologist</li> <li>► Electronics Engineer</li> <li>► Engineering and Related Technician and Technologist</li> <li>► Industrial Engineer</li> <li>► Labor Relations Manager</li> <li>► Manufacturing Engineer</li> <li>► Manufacturing Technician</li> <li>► Power Generating and Reactor Plant Operator</li> <li>► Precision Inspector, Tester and Grader</li> <li>► Process Improvement Technician</li> <li>► Production Manager</li> <li>► Purchasing Agent</li> <li>► Supervisor</li> </ul>	
	10	English Literature	Geometry	Biology	Modern Europe		Materials and Processes		
	11	Literature & Composition	Pre-Calculus	Chemistry	U.S. History		Introduction to CIM		
	College Placement Assessments-Academic/Career Advisement Provided								
	12	English Composition ACC/UCONN	Intermediate Algebra ACC	Advanced Chemistry ACC/UCONN	World Issues		Applications in Manufacturing Technology Safety in the Workplace		
Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.									
POSTSECONDARY	Year 13	English Composition	Intermediate Algebra ACCI	Physics	American Government		Quality Assurance Concepts and Techniques Strategies to Ensure Continuous Improvement in Manufacturing		
	Year 14	Speech/Oral Communication	Computer Applications	Biological Science	Modern Western Traditions		Manufacturing Production Processes Design for Manufacturability		
	Year 15						Continue Courses in Area of Specialization		
	Year 16						Complete Manufacturing Production Process Development Major (4-Year Degree Program)		