



Wilson Academy of Applied Technology

Workforce Development Learning Plan

9th Grade Introduction to Manufacturing	<p>Focus: All 9th grade experiences are designed to introduce students to careers in advanced manufacturing and related fields. Students will have hands-on experiences from day one as they gain workforce knowledge. Activities are designed to help students spark interests in particular career pathway. Soft skills and technical skills are emphasized in all classrooms to promote workforce readiness.</p> <p>Student Learning Outcomes: Students are able to identify different careers within advanced manufacturing and related fields that they are interested in as a future career.</p> <p>Students are able to speak with a basic understanding about norms and cultural attributes of careers in advanced manufacturing and related fields.</p>	<p>Experiences include, but are not limited to:</p> <ul style="list-style-type: none"> • Communication Skills • Conflict Resolution • Field Trips/Industry Tours • Organization Skills • Safety • Time Management • Problem Solving • Teamwork & Collaboration • Dress for Success • Attendance • Code of Conduct • Respect for authority & self • Cleanliness • Understand Basic Manufacturing • Maintenance Components • Production Processes • Self & Peer Assessments <ul style="list-style-type: none"> • 5S Assessment • DMAIC Process • Project-Based Learning • Good Manufacturing Practices • Classroom Speakers • Accountability • Data Analysis • Electronics • Research Careers • Critical Thinking • Use of Basic Hand Tools • Basic Measurement • Precision Measurement • Resume' Writing • Quality in Manufacturing
10th Grade Career Exploration	<p>Focus: All 10th grade experiences provide students with opportunities to look closely at specific career options in advanced manufacturing and related fields. Students refine their areas of interests to prepare themselves to determine which pathway is appropriate for them at the conclusion of the school year. Soft skills and technical skills are still being emphasized in all classrooms to promote workforce readiness.</p> <p>Student Learning Outcome: Students are able to make an informed decision on which career pathway is most suited for them by the end of their 10th grade school year.</p>	<p>Experiences include, but are not limited to:</p> <ul style="list-style-type: none"> • Computer Aided Design (CAD) • Basic Robotics • Business Ethics/Etiquette • Classroom Speakers • Field Trips/Industry Tours • Project-Based Learning/Industry-Based Projects • Lean Manufacturing • Time Management • Safety • Tenacity/Determination • Attention to Detail • Dress for Success • Critical Thinking • Self & Peer Assessments <ul style="list-style-type: none"> • Communication Skills • Work Ethics • Organization Skills • Critical Thinking • Problem Solving • Teamwork & Collaboration • 5S Assessment • DMAIC Process • Accountability • Data Analysis • 3D Printing • Resume' Writing • Attendance



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11th Grade Career Preparation	<p>Focus: All 11th grade activities are designed to help prepare students for their specific career or college pathway. Students will begin to apply their learning through work-based activities like job shadowing and continued interactions with industry professionals. Hands-on learning opportunities remain in the forefront.</p> <p>Student Learning Outcome: Students are able to understand workplace culture, etiquette and practices.</p> <p>Students are able to demonstrate professionalism, punctuality, responsibility, and ethical behavior during work-based experiences.</p>	<p>Experiences include, but are not limited to:</p> <ul style="list-style-type: none"> • Business Ethics/Etiquette • Classroom Speakers • Field Trips/Industry Tours • Project-Based Learning/Industry-Based Projects • Time Management • Safety • OSHA Certification • Reading Blueprints • Basic Electricity • Cleanliness • Code of Conduct • ISO 9000 • Attendance • Critical Thinking <ul style="list-style-type: none"> • Communication Skills • Organization Skills • Critical Thinking • Problem Solving • Teamwork & Collaboration • 5S Assessment • DMAIC Process • Accountability • Data Analysis • Understanding Excel • Leadership Skills • Resume' Writing • Dress for Success • Self & Peer Assessments
12th Grade Workforce Development	<p>Focus: All 12th grade students are engaged in hands-on and practical experiences. Students experiences with industrial equipment will help prepare them for experiences in the field. Workforce development will continue, but focused on specific organizations. Students' knowledge will be developed on the role of an employee.</p> <p>Student Learning Outcome: Students are able to demonstrate knowledge and skills specific to employment in their career pathway.</p>	<p>Experiences include, but are not limited to:</p> <ul style="list-style-type: none"> • Classroom Speakers • Job Shadowing • Project-Based Learning/Industry-Based Projects • Time Management • Safety • 3D Printing • Computer Aided Design (CAD) • Understanding PLCs • Understanding Circuit Analysis • Intro to Automation • Cost Analysis/Justification • Metric System/Fractions/ Applied Mathematics • Ladder Logic • Attendance • Critical Thinking • Self & Peer Assessments <ul style="list-style-type: none"> • Communication Skills • Organization Skills • Critical Thinking • Problem Solving • Teamwork & Collaboration • 5S Assessment • DMAIC Process • Accountability • Data Analysis • Instrumentation • How to fill out an application • Calibration • Accuracy in Measurement • Resume' Writing • Dress for Success • Statistical Analysis



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13th Grade Career Training

Focus:

Activities will allow students to show the mastery of the content and skills they have gained throughout the program. Students' participation in internships will also solidify their understanding of various topics related to their career pathway.

Student Learning Outcome:

Students are able to engage in networking opportunities during their internship experiences.

Students are able to exhibit employable skills and knowledge during their internship experiences.

Students are able to graduate with an Associate of Applied Science degree in Applied Engineering Technology.

Experiences include, but are not limited to:

- Resume' Writing
- Mock Interview
- Dress for Success
- Internship
- Project-Based Learning/Industry-Based Projects
- Time Management
- Safety
- PLC Applications
- Understanding Motors and Controls
- Understanding Hydraulics and Pneumatics
- Personal Finance/Investment
- Attendance
- Critical Thinking
- Writing Business Plans
- Communication Skills
- Organization Skills
- Critical Thinking
- Problem Solving
- Teamwork & Collaboration
- 5S Assessment
- DMAIC Process
- Accountability
- Data Analysis
- Instrumentation
- Intro to Automation
- Ladder Logic
- Robotics
- Self & Peer Assessments