



2017 Alignment of Florida Advanced Manufacturing Technician Skills to the Educational Outcomes:  
of the 2-year A.S. Engineering Technology Degree Program for Advanced Manufacturing (Mechatronics)

Obtaining feedback from industries is vital to reviewing curriculum content of schools preparing a competent workforce to meet industries' needs. Florida Makes in partnership with Polk State College (PSC) and FLATE (Florida Advanced Technological Education) are requesting your extremely valuable participation. The survey will take approximately 15 minutes to complete.

Section 1 is for Technical Skills and requests two responses: one for the importance of the item and the second for the frequency performed. Rank the importance responses using a scale from 1 to 5, with 5 being "Most Valuable" and 1 being "Least Important." Also, if appropriate, you may select "N/A" (Not Applicable) as an option. For frequency performed, select one of: "Never", "Sometimes" or "Always". If you select N/A for the importance response, please select "Never" for the frequency response.

Section 2 is for personal and teamwork skills and requests responses for only the level of importance and uses the same 1-5 scale as stated in section 1.

The survey will automatically conclude when you finish answering the questions and click on the "Done" button.

We sincerely appreciate you taking the time to provide us your valuable feedback and will share the results when all the data has been compiled.

\* What Florida county are you located in?

\* **Technical Skills** - A highly skilled employee at this plant is expected to have in-depth technical knowledge, critical thinking and judgment abilities, and systems thinking abilities in order to:

	Rank by Importance (1 being least important and 5 being the most valuable)	Frequency of Use
1. Implement all related safety codes and regulations in industrial working environments.	<input type="text" value=""/>	<input type="text" value=""/>
2. Perform tasks in a specialized technical area.	<input type="text" value=""/>	<input type="text" value=""/>
3. Work with computer aided drafting and create geometric part files.	<input type="text" value=""/>	<input type="text" value=""/>
4. Work at the entry level with traditional materials removal machines, (milling, lathe, drill press, cut-off-saws.)	<input type="text" value=""/>	<input type="text" value=""/>
5. Understand mechanical and process characteristics of common materials.	<input type="text" value=""/>	<input type="text" value=""/>
6. Operate materials testing tools and equipment.	<input type="text" value=""/>	<input type="text" value=""/>
7. Operate, maintain, and repair mechanical, hydraulic, and pneumatic systems.	<input type="text" value=""/>	<input type="text" value=""/>
8. Operate AC electric-powered tools, and equipment.	<input type="text" value=""/>	<input type="text" value=""/>
9. Operate DC electric-powered tools and equipment.	<input type="text" value=""/>	<input type="text" value=""/>
10. Operate electronic sensors, switches, and controls.	<input type="text" value=""/>	<input type="text" value=""/>
11. Operate programmable logic controllers and use systems schematics.	<input type="text" value=""/>	<input type="text" value=""/>
12. Diagnose causes and troubleshoot systems operations, using schematics and ladder logic diagrams.	<input type="text" value=""/>	<input type="text" value=""/>
13. Report total quality improvements of a unit and the entire systems operation.	<input type="text" value=""/>	<input type="text" value=""/>
14. Evaluate the results of tasks performed in accordance with standard operating procedures (SOPs).	<input type="text" value=""/>	<input type="text" value=""/>
15. Perform root cause analysis and recommend corrective actions.	<input type="text" value=""/>	<input type="text" value=""/>
16. Participate in planning and evaluating processes.	<input type="text" value=""/>	<input type="text" value=""/>
17. Compare and contrast process alternatives.	<input type="text" value=""/>	<input type="text" value=""/>
18. Recommend new solutions and consider effects on various processes even in circumstances where requirements are subject to frequent changes.	<input type="text" value=""/>	<input type="text" value=""/>
19. Demonstrate a high level of independent judgment in a range of technical functions and articulate significant challenges involved.	<input type="text" value=""/>	<input type="text" value=""/>
20. Participate in the development of an existing and/or new product and/or operation.	<input type="text" value=""/>	<input type="text" value=""/>

\* **Personal & Team Skills** - Index factors for personal skills are based on self-sufficiency, responsibility, and self-awareness, and reflectiveness. In addition, team skills are measured based on communication, involvement, work ethic, character, adaptability, problem solving, critical observation, teamwork, and leadership. Employees should be able to demonstrate the ability to:

	1	2	3	4	5	N/A
1. Use required learning guides and request learning guidance when needed.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Use initiative to set their own enhanced learning objectives related to daily tasks and performance.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Evaluate personal strengths and weaknesses of knowledge and performance related activities.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Define objectives for new simple applications and establish tasks to accomplish the objectives.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Share with team members alternative ideas and strategies to define the objectives of complex applications.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. Express the mission, goals, and objectives of the workplace.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. Take responsibility for work environment.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. Demonstrate interpersonal communication.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. Follow rules and regulations in the workplace.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. Execute team assignments competently.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11. Listen effectively.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12. Effectively participate in a diverse work environment.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13. Communicate clearly, timely, and relevant information on processes and results at all levels.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14. Conduct, analyze, interpret, and present complex facts and provide solutions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15. Take appropriate corrective actions based upon provided feedback.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
16. Build consensus from group discussions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
17. Demonstrate the ability to transfer information and specialized skills to others.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
18. Set short-term and long-term goals.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19. Represent the organization in a professional manner.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20. Demonstrate appropriate social skills.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>