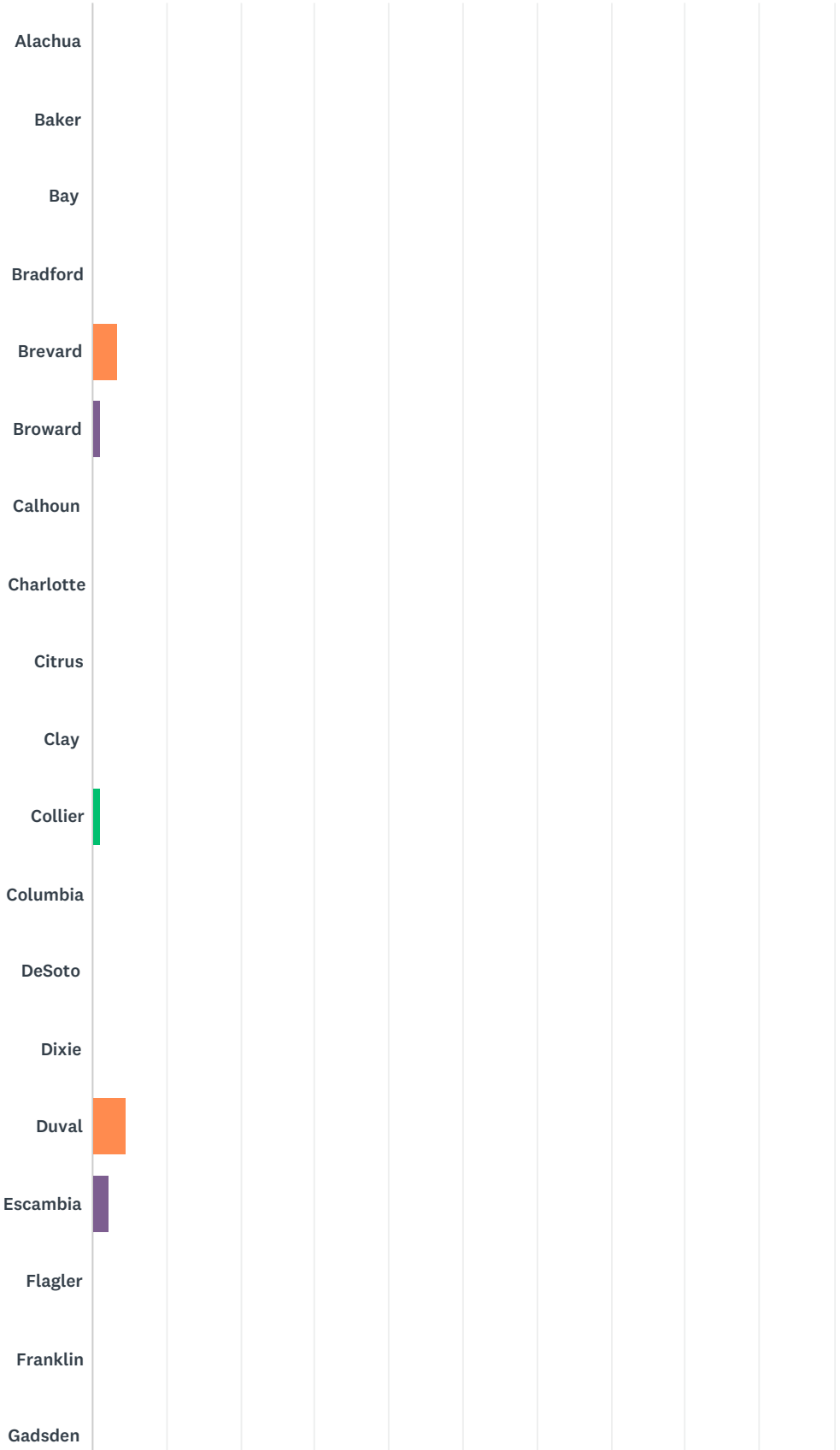
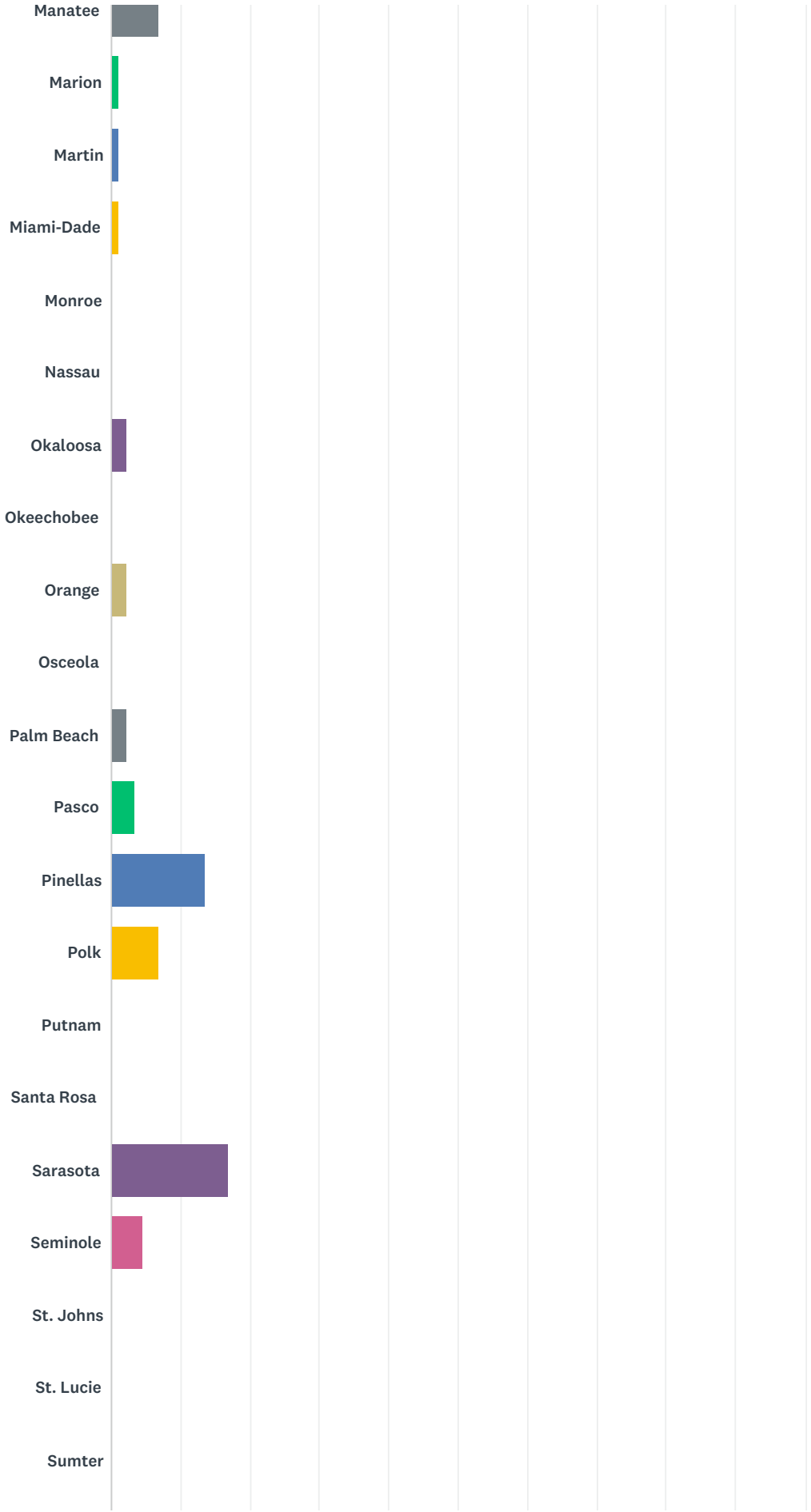
Q1 What Florida county are you located in?

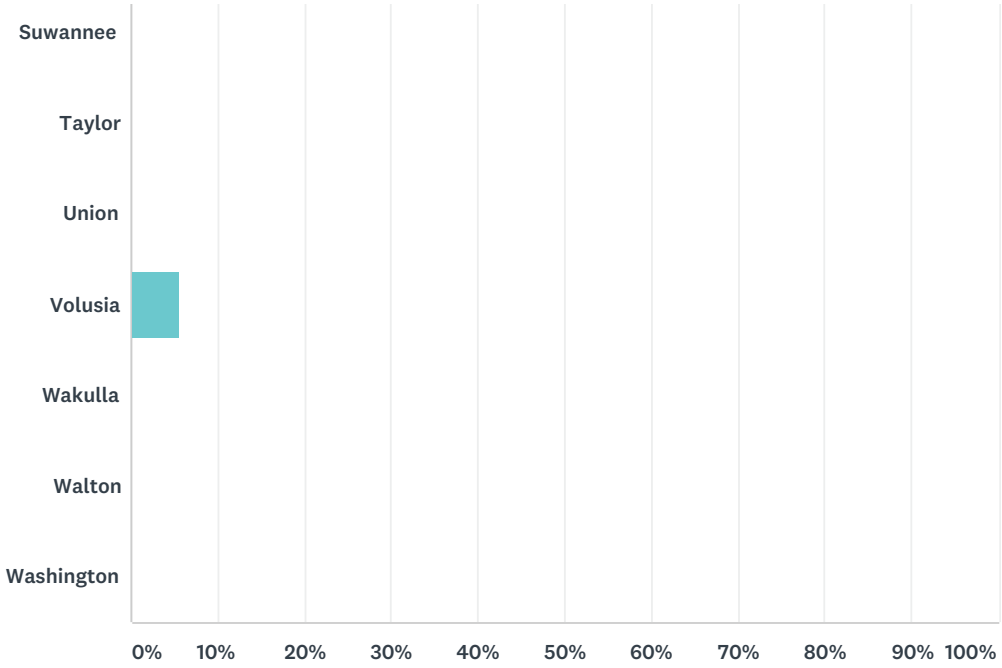
Answered: 88 Skipped: 0




Gilchrist
Glades
Gulf
Hamilton
Hardee
Hendry
Hernando
Highlands
Hillsborough
Holmes
Indian River
Jackson
Jefferson
Lafayette
Lake
Lee
Leon
Levy
Liberty
Madison

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)





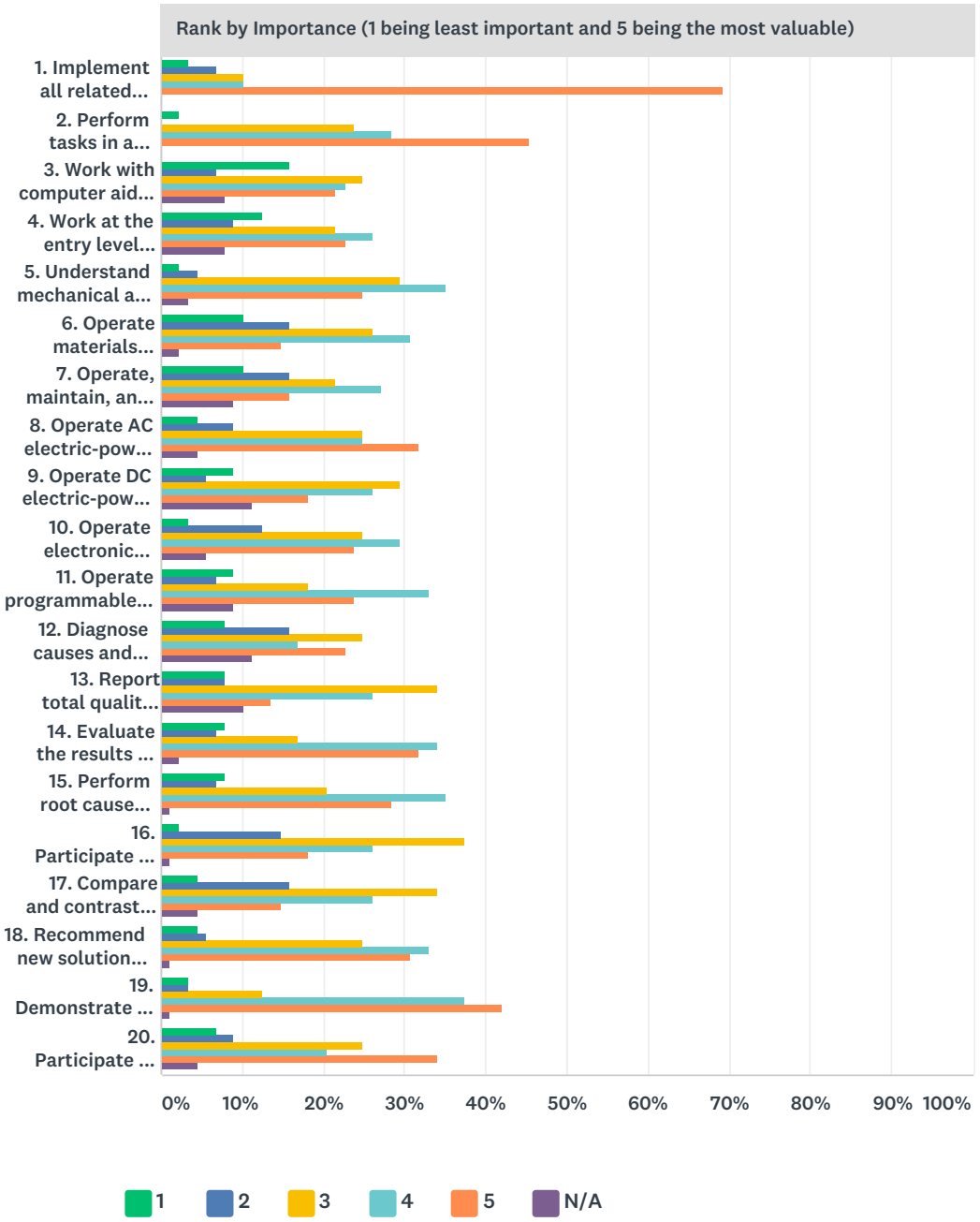
ANSWER CHOICES	RESPONSES	
Alachua	0.00%	0
Baker	0.00%	0
Bay	0.00%	0
Bradford	0.00%	0
Brevard	3.41%	3
Broward	1.14%	1
Calhoun	0.00%	0
Charlotte	0.00%	0
Citrus	0.00%	0
Clay	0.00%	0
Collier	1.14%	1
Columbia	0.00%	0
DeSoto	0.00%	0
Dixie	0.00%	0
Duval	4.55%	4
Escambia	2.27%	2
Flagler	0.00%	0
Franklin	0.00%	0
Gadsden	0.00%	0
Gilchrist	0.00%	0

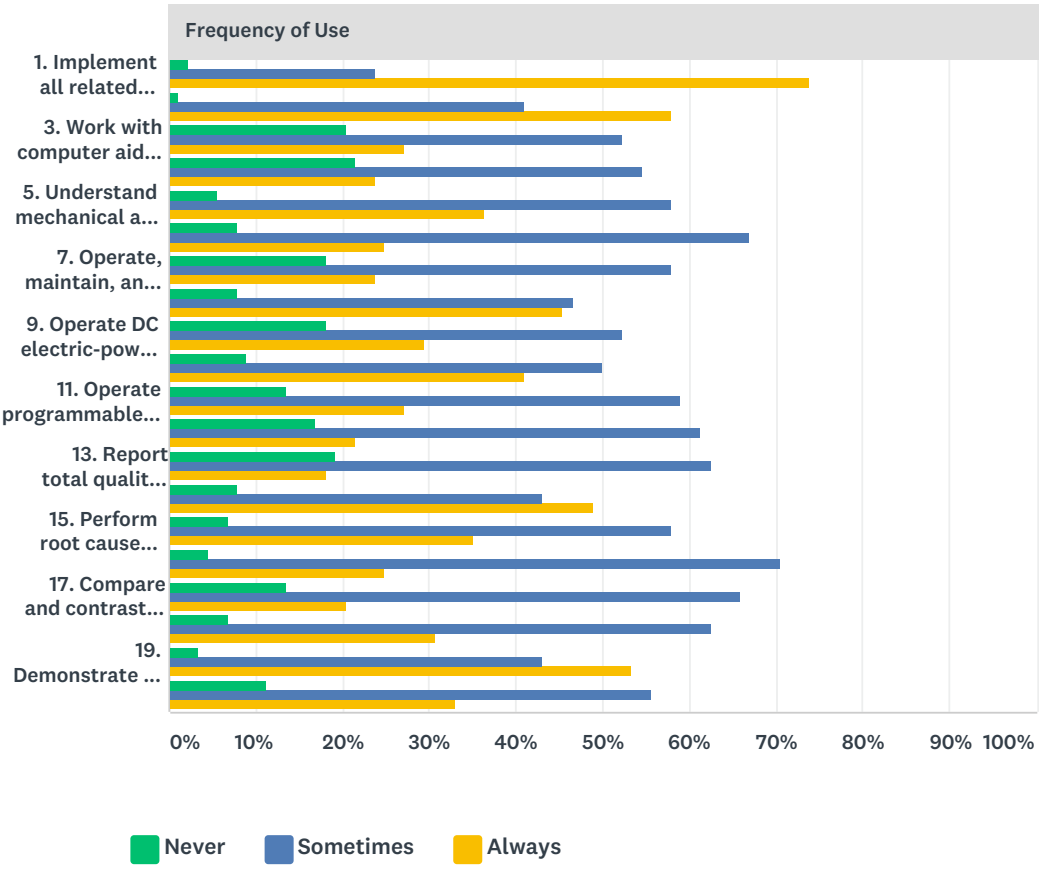
Glades	0.00%	0
Gulf	0.00%	0
Hamilton	0.00%	0
Hardee	0.00%	0
Hendry	0.00%	0
Hernando	0.00%	0
Highlands	0.00%	0
Hillsborough	11.36%	10
Holmes	0.00%	0
Indian River	0.00%	0
Jackson	2.27%	2
Jefferson	0.00%	0
Lafayette	0.00%	0
Lake	1.14%	1
Lee	3.41%	3
Leon	1.14%	1
Levy	0.00%	0
Liberty	0.00%	0
Madison	0.00%	0
Manatee	6.82%	6
Marion	1.14%	1
Martin	1.14%	1
Miami-Dade	1.14%	1
Monroe	0.00%	0
Nassau	0.00%	0
Okaloosa	2.27%	2
Okeechobee	0.00%	0
Orange	2.27%	2
Osceola	0.00%	0
Palm Beach	2.27%	2
Pasco	3.41%	3
Pinellas	13.64%	12
Polk	6.82%	6
Putnam	0.00%	0

Santa Rosa	0.00%	0
Sarasota	17.05%	15
Seminole	4.55%	4
St. Johns	0.00%	0
St. Lucie	0.00%	0
Sumter	0.00%	0
Suwannee	0.00%	0
Taylor	0.00%	0
Union	0.00%	0
Volusia	5.68%	5
Wakulla	0.00%	0
Walton	0.00%	0
Washington	0.00%	0
TOTAL		88

Q2 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:

Answered: 88 Skipped: 0





Rank by Importance (1 being least important and 5 being the most valuable)

	1	2	3	4	5	N/A	TOTAL
1. Implement all related safety codes and regulations in industrial working environments.	3.41% 3	6.82% 6	10.23% 9	10.23% 9	69.32% 61	0.00% 0	88
2. Perform tasks in a specialized technical area.	2.27% 2	0.00% 0	23.86% 21	28.41% 25	45.45% 40	0.00% 0	88
3. Work with computer aided drafting and create geometric part files.	15.91% 14	6.82% 6	25.00% 22	22.73% 20	21.59% 19	7.95% 7	88
4. Work at the entry level with traditional materials removal machines, (milling, lathe, drill press, cut-off-saws.)	12.50% 11	9.09% 8	21.59% 19	26.14% 23	22.73% 20	7.95% 7	88
5. Understand mechanical and process characteristics of common materials.	2.27% 2	4.55% 4	29.55% 26	35.23% 31	25.00% 22	3.41% 3	88
6. Operate materials testing tools and equipment.	10.23% 9	15.91% 14	26.14% 23	30.68% 27	14.77% 13	2.27% 2	88
7. Operate, maintain, and repair mechanical, hydraulic, and pneumatic systems.	10.23% 9	15.91% 14	21.59% 19	27.27% 24	15.91% 14	9.09% 8	88
8. Operate AC electric-powered tools, and equipment.	4.55% 4	9.09% 8	25.00% 22	25.00% 22	31.82% 28	4.55% 4	88
9. Operate DC electric-powered tools and equipment.	9.09% 8	5.68% 5	29.55% 26	26.14% 23	18.18% 16	11.36% 10	88
10. Operate electronic sensors, switches, and controls.	3.41% 3	12.50% 11	25.00% 22	29.55% 26	23.86% 21	5.68% 5	88
11. Operate programmable logic controllers and use systems schematics.	9.09% 8	6.82% 6	18.18% 16	32.95% 29	23.86% 21	9.09% 8	88
12. Diagnose causes and troubleshoot systems operations, using schematics and ladder logic diagrams.	7.95% 7	15.91% 14	25.00% 22	17.05% 15	22.73% 20	11.36% 10	88

13. Report total quality improvements of a unit and the entire systems operation.	7.95% 7	7.95% 7	34.09% 30	26.14% 23	13.64% 12	10.23% 9	88
14. Evaluate the results of tasks performed in accordance with standard operating procedures (SOPs).	7.95% 7	6.82% 6	17.05% 15	34.09% 30	31.82% 28	2.27% 2	88
15. Perform root cause analysis and recommend corrective actions.	7.95% 7	6.82% 6	20.45% 18	35.23% 31	28.41% 25	1.14% 1	88
16. Participate in planning and evaluating processes.	2.27% 2	14.77% 13	37.50% 33	26.14% 23	18.18% 16	1.14% 1	88
17. Compare and contrast process alternatives.	4.55% 4	15.91% 14	34.09% 30	26.14% 23	14.77% 13	4.55% 4	88
18. Recommend new solutions and consider effects on various processes even in circumstances where requirements are subject to frequent changes.	4.55% 4	5.68% 5	25.00% 22	32.95% 29	30.68% 27	1.14% 1	88
19. Demonstrate a high level of independent judgment in a range of technical functions and articulate significant challenges involved.	3.41% 3	3.41% 3	12.50% 11	37.50% 33	42.05% 37	1.14% 1	88
20. Participate in the development of an existing and/or new product and/or operation.	6.82% 6	9.09% 8	25.00% 22	20.45% 18	34.09% 30	4.55% 4	88

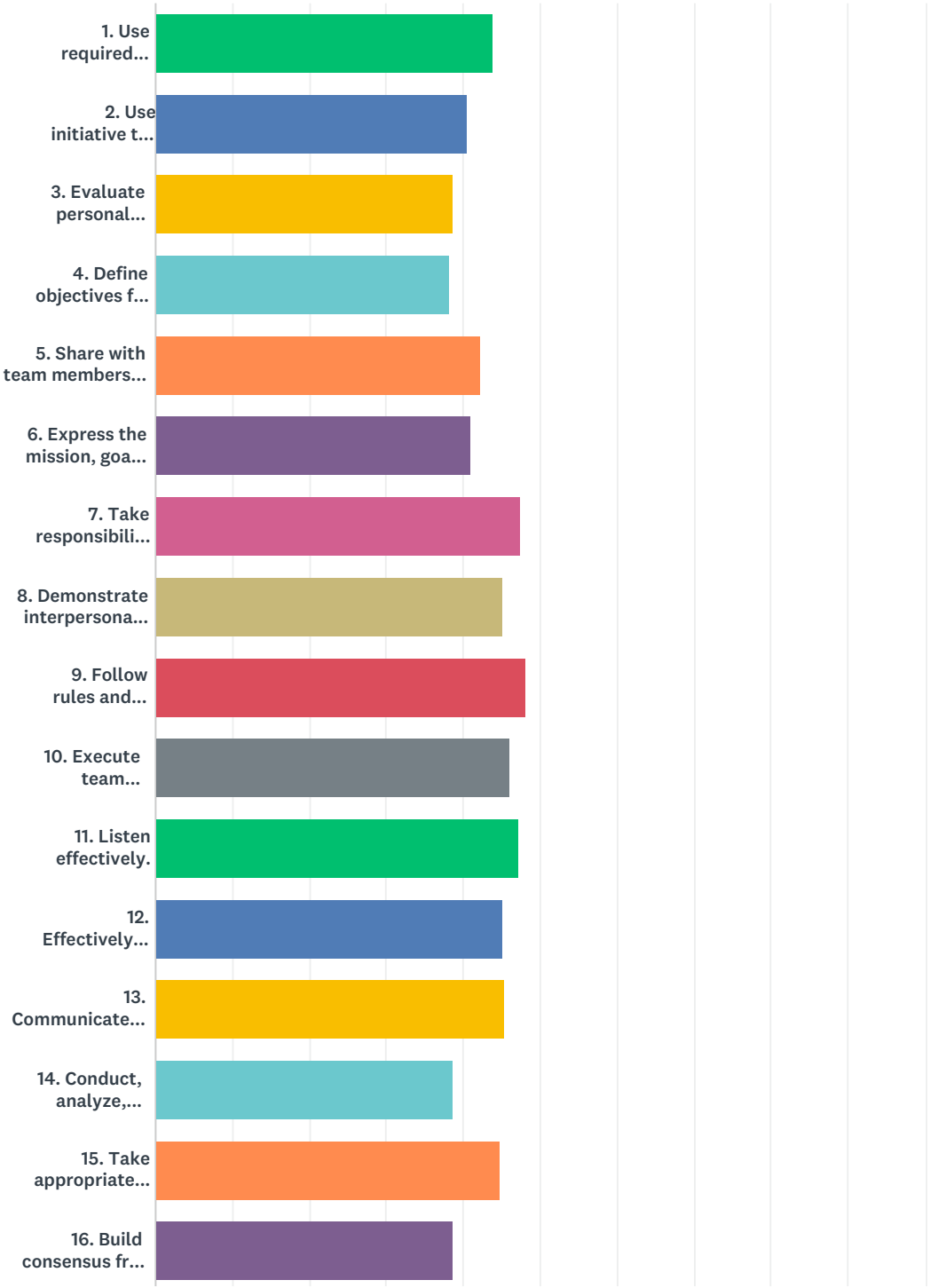
Frequency of Use

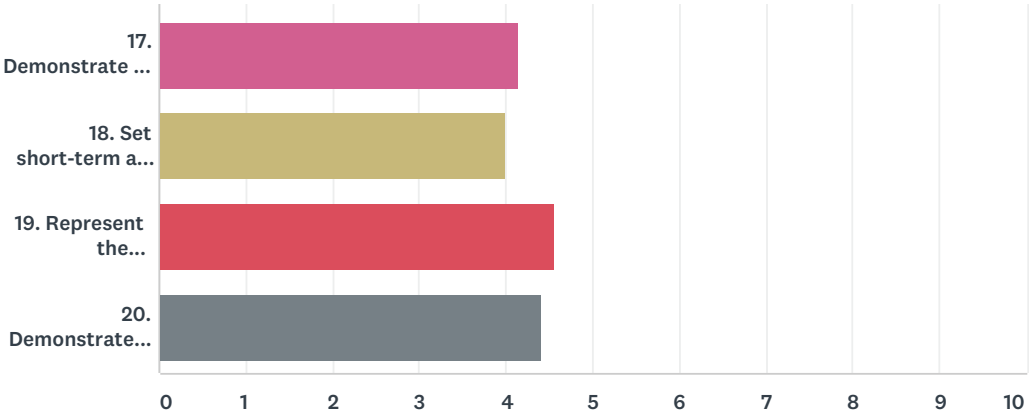
	NEVER	SOMETIMES	ALWAYS	TOTAL
1. Implement all related safety codes and regulations in industrial working environments.	2.27% 2	23.86% 21	73.86% 65	88
2. Perform tasks in a specialized technical area.	1.14% 1	40.91% 36	57.95% 51	88
3. Work with computer aided drafting and create geometric part files.	20.45% 18	52.27% 46	27.27% 24	88
4. Work at the entry level with traditional materials removal machines, (milling, lathe, drill press, cut-off-saws.)	21.59% 19	54.55% 48	23.86% 21	88
5. Understand mechanical and process characteristics of common materials.	5.68% 5	57.95% 51	36.36% 32	88
6. Operate materials testing tools and equipment.	7.95% 7	67.05% 59	25.00% 22	88
7. Operate, maintain, and repair mechanical, hydraulic, and pneumatic systems.	18.18% 16	57.95% 51	23.86% 21	88
8. Operate AC electric-powered tools, and equipment.	7.95% 7	46.59% 41	45.45% 40	88
9. Operate DC electric-powered tools and equipment.	18.18% 16	52.27% 46	29.55% 26	88
10. Operate electronic sensors, switches, and controls.	9.09% 8	50.00% 44	40.91% 36	88
11. Operate programmable logic controllers and use systems schematics.	13.64% 12	59.09% 52	27.27% 24	88
12. Diagnose causes and troubleshoot systems operations, using schematics and ladder logic diagrams.	17.05% 15	61.36% 54	21.59% 19	88
13. Report total quality improvements of a unit and the entire systems operation.	19.32% 17	62.50% 55	18.18% 16	88
14. Evaluate the results of tasks performed in accordance with standard operating procedures (SOPs).	7.95% 7	43.18% 38	48.86% 43	88
15. Perform root cause analysis and recommend corrective actions.	6.82% 6	57.95% 51	35.23% 31	88

16. Participate in planning and evaluating processes.	4.55% 4	70.45% 62	25.00% 22	88
17. Compare and contrast process alternatives.	13.64% 12	65.91% 58	20.45% 18	88
18. Recommend new solutions and consider effects on various processes even in circumstances where requirements are subject to frequent changes.	6.82% 6	62.50% 55	30.68% 27	88
19. Demonstrate a high level of independent judgment in a range of technical functions and articulate significant challenges involved.	3.41% 3	43.18% 38	53.41% 47	88
20. Participate in the development of an existing and/or new product and/or operation.	11.36% 10	55.68% 49	32.95% 29	88

Q3 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:

Answered: 88 Skipped: 0





	1	2	3	4	5	N/A	TOTAL	WEIGHTED AVERAGE
1. Use required learning guides and request learning guidance when needed.	1.14% 1	1.14% 1	9.09% 8	34.09% 30	53.41% 47	1.14% 1	88	4.39
2. Use initiative to set their own enhanced learning objectives related to daily tasks and performance.	2.27% 2	6.82% 6	13.64% 12	37.50% 33	38.64% 34	1.14% 1	88	4.05
3. Evaluate personal strengths and weaknesses of knowledge and performance related activities.	3.41% 3	4.55% 4	21.59% 19	40.91% 36	27.27% 24	2.27% 2	88	3.86
4. Define objectives for new simple applications and establish tasks to accomplish the objectives.	1.14% 1	9.09% 8	20.45% 18	43.18% 38	25.00% 22	1.14% 1	88	3.83
5. Share with team members alternative ideas and strategies to define the objectives of complex applications.	1.14% 1	2.27% 2	15.91% 14	32.95% 29	46.59% 41	1.14% 1	88	4.23
6. Express the mission, goals, and objectives of the workplace.	0.00% 0	6.82% 6	17.05% 15	34.09% 30	39.77% 35	2.27% 2	88	4.09
7. Take responsibility for work environment.	2.27% 2	0.00% 0	1.14% 1	13.64% 12	81.82% 72	1.14% 1	88	4.75
8. Demonstrate interpersonal communication.	2.27% 2	0.00% 0	2.27% 2	32.95% 29	60.23% 53	2.27% 2	88	4.52
9. Follow rules and regulations in the workplace.	1.14% 1	1.14% 1	2.27% 2	5.68% 5	87.50% 77	2.27% 2	88	4.81
10. Execute team assignments competently.	2.27% 2	0.00% 0	4.55% 4	21.59% 19	70.45% 62	1.14% 1	88	4.60
11. Listen effectively.	2.27% 2	0.00% 0	2.27% 2	12.50% 11	80.68% 71	2.27% 2	88	4.73
12. Effectively participate in a diverse work environment.	2.27% 2	0.00% 0	5.68% 5	27.27% 24	63.64% 56	1.14% 1	88	4.52
13. Communicate clearly, timely, and relevant information on processes and results at all levels.	1.14% 1	1.14% 1	3.41% 3	31.82% 28	62.50% 55	0.00% 0	88	4.53
14. Conduct, analyze, interpret, and present complex facts and provide solutions.	4.55% 4	4.55% 4	17.05% 15	46.59% 41	27.27% 24	0.00% 0	88	3.88
15. Take appropriate corrective actions based upon provided feedback.	2.27% 2	0.00% 0	5.68% 5	32.95% 29	59.09% 52	0.00% 0	88	4.47
16. Build consensus from group discussions.	1.14% 1	7.95% 7	20.45% 18	43.18% 38	27.27% 24	0.00% 0	88	3.88
17. Demonstrate the ability to transfer information and specialized skills to others.	2.27% 2	2.27% 2	11.36% 10	47.73% 42	36.36% 32	0.00% 0	88	4.14

18. Set short-term and long-term goals.	1.14% 1	6.82% 6	17.05% 15	42.05% 37	32.95% 29	0.00% 0	88	3.99
19. Represent the organization in a professional manner.	1.14% 1	3.41% 3	4.55% 4	19.32% 17	71.59% 63	0.00% 0	88	4.57
20. Demonstrate appropriate social skills.	2.27% 2	0.00% 0	10.23% 9	28.41% 25	59.09% 52	0.00% 0	88	4.42