

Manufacturing in NYS: How Manufacturing Associations in NYS are utilizing Registered Apprenticeship to meet workforce needs

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What is MIAP?



The Manufacturers Intermediary Apprenticeship Program (MIAP)

MACNY is proud to partner with the New York State Department of Labor and our Alliance Partners to sponsor the Manufacturers Intermediary Apprenticeship Program (MIAP).

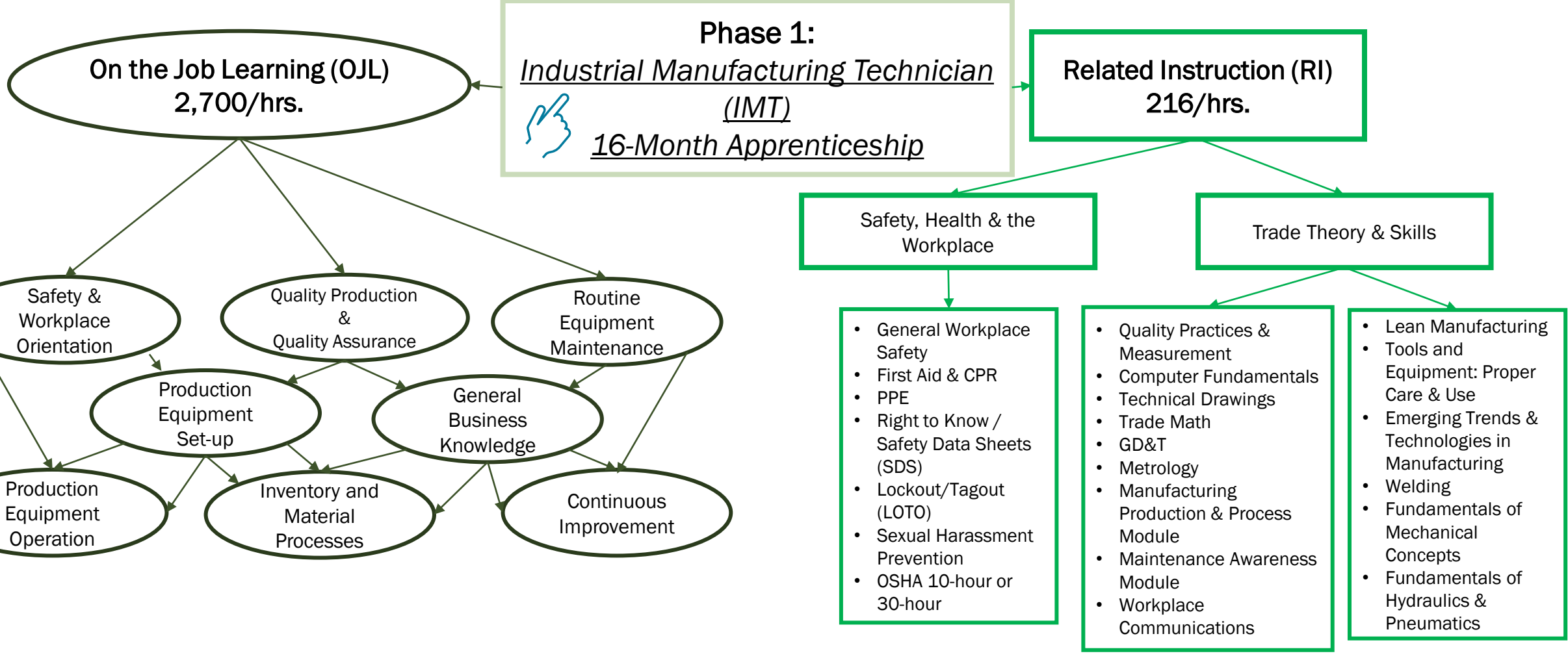
[FOR INDUSTRY](#)[FOR APPRENTICES](#)

What is MIAP (The Manufacturers Intermediary Apprenticeship Program)?

MIAP supports equitable access to Registered Apprenticeship for all individuals, regardless of their work experience or academic qualifications. Across the state, MIAP supports companies in the recruitment, upskilling, and retention of new workers by acting as intermediaries to help them establish and manage New York State Registered Apprenticeship program.

MIAP NYS Registered Apprentice Program Approved Trade List

• Brewer/Distiller	20 - Months	• Maintenance Mechanic (Automation Equipment)	4 - Years
• Building Maintenance Mechanic	2 - Years	• Manufacturing Engineering Technician	4 - Years
• Cloud Engineer	Competency	• Metal Stamping Press Operator	4 - Years
• CNC Machinist	4 - Years	• Mold-maker	4 - Years
• Computer Support Technician	Competency	• Plant Maintenance - Electrician	4 - Years
• Data Analyst	Competency	• Plant Maintenance - Pipefitter	4 - Years
• Electro-Mechanical Technician	4 - Years	• Precision Optics Manufacturing Technician	3 - Years
• Electronics Technician (Manufacturing Only)	4 - Years	• Quality Assurance Auditor	2 - Years
• Industrial Manufacturing Technician	16 - Months	• Software Developer	1 - Year
• Machine Builder	4 - Years	• Toolmaker	4 - Years
• Machinist	4 - Years	• Welder (Industrial)	4 - Years



Electro-Mechanical Technician Apprenticeship

Maintenance Mechanic Apprenticeship

Phase 2:
 IMT OJL & RI Skills Apply Towards
 48-mo Apprenticeship Requirements

CNC Machinist Apprenticeship

Manufacturing Engineering Technician Apprenticeship

*All programs can be customized to support a specific industry



Manufacturing is the region's second largest employer with more than 80,000 estimated careers.

Monroe County ■ City of Rochester ■ GLOW Region ■ Finger Lakes Region

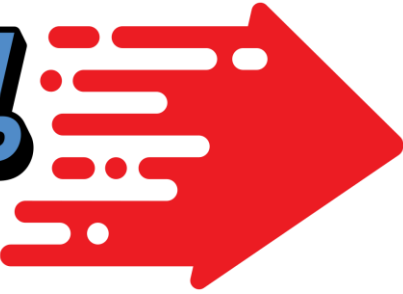




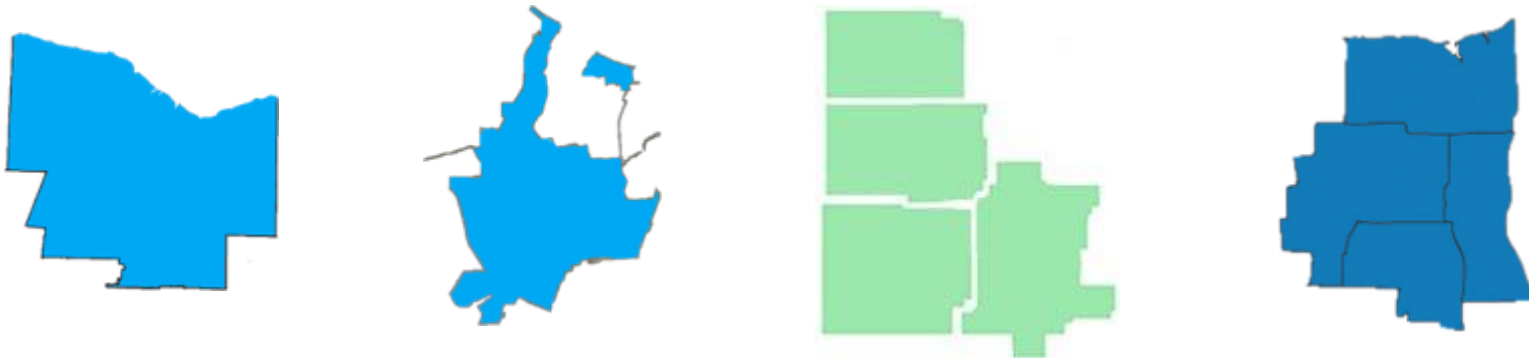
- Created in 2018 by the Rochester Technology & Manufacturing Association in partnership with Monroe Community College.
- This is a one-of-a-kind Youth Apprenticeship Program that is becoming a model across New York State!



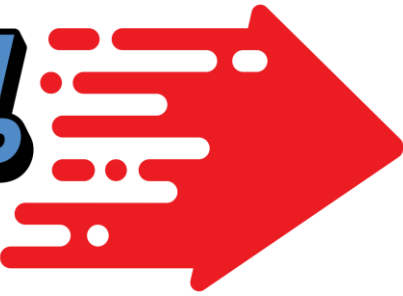
FINGER LAKES **YOUTH** **APPRENTICESHIP** PROGRAM



Partners with advanced manufacturing businesses and every BOCES and Career & Technical Education High School in the greater Rochester and Finger Lakes regions.



FINGER LAKES **YOUTH** APPRENTICESHIP PROGRAM

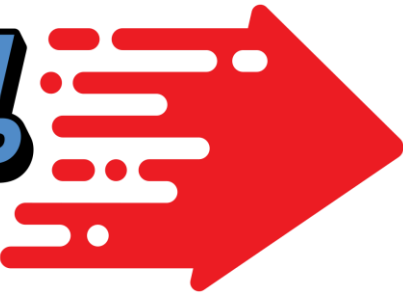


- FLYAP has seen significant growth in the city of Rochester with half of this year's youth apprentices coming from city and charter schools.



- FLYAP has also grown in the GLOW Region, as Genesee Valley BOCES has more than doubled since its first year.

FINGER LAKES **YOUTH** **APPRENTICESHIP** PROGRAM



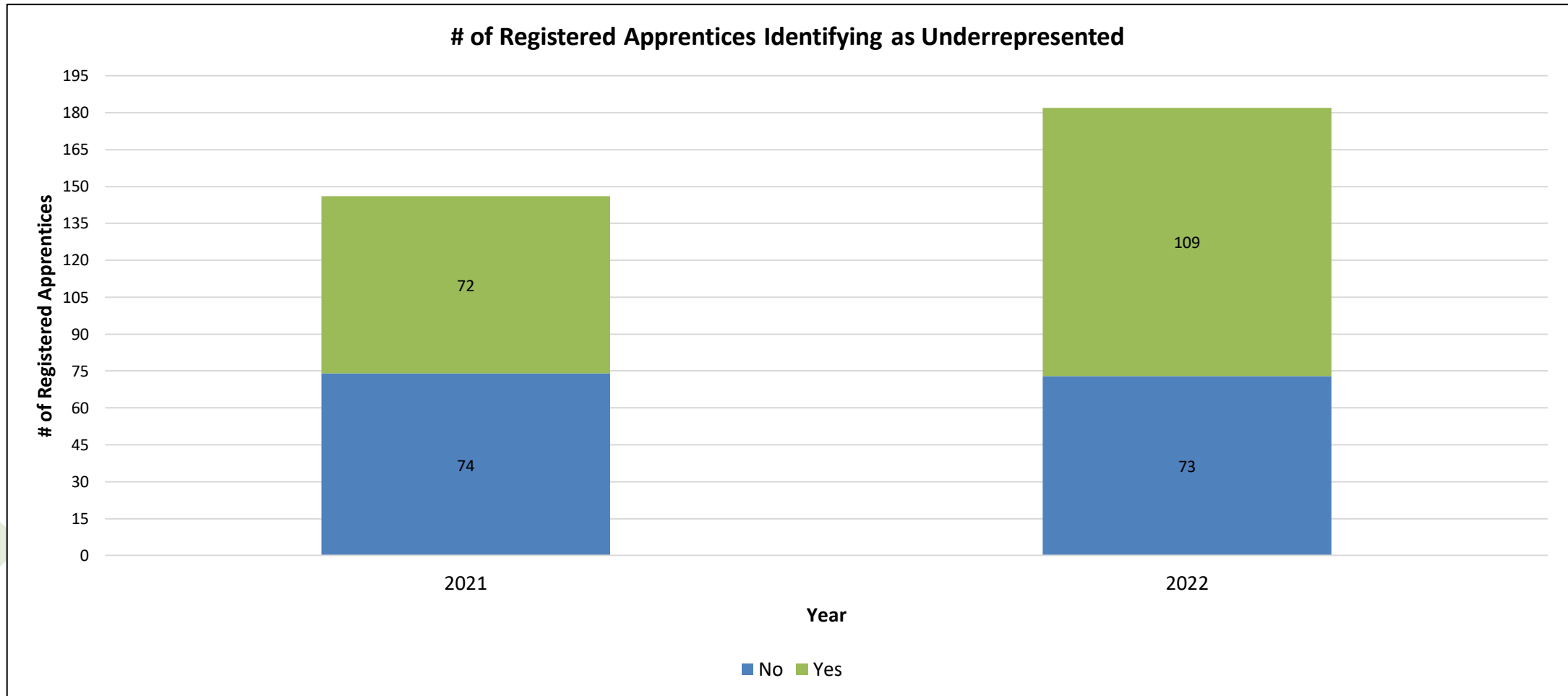
ROC With Your Hands – annual career exploration event for students in grades seven through twelve.



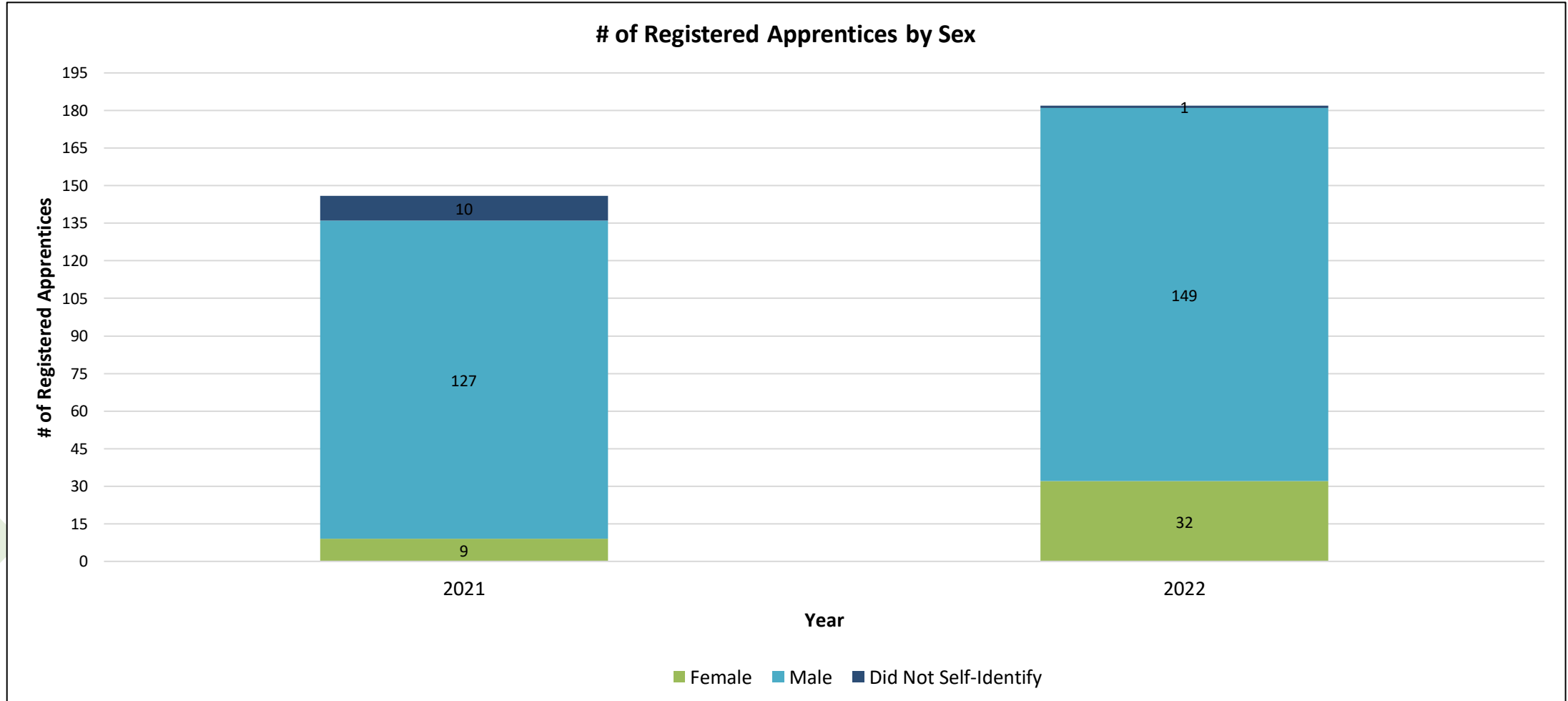
Manufacturing Educators' Day – informational event for teachers, administrators, counselors and more!



Increasing Diversity & Equity in Apprenticeship for Manufacturing



Increasing Diversity & Equity in Apprenticeship for Manufacturing

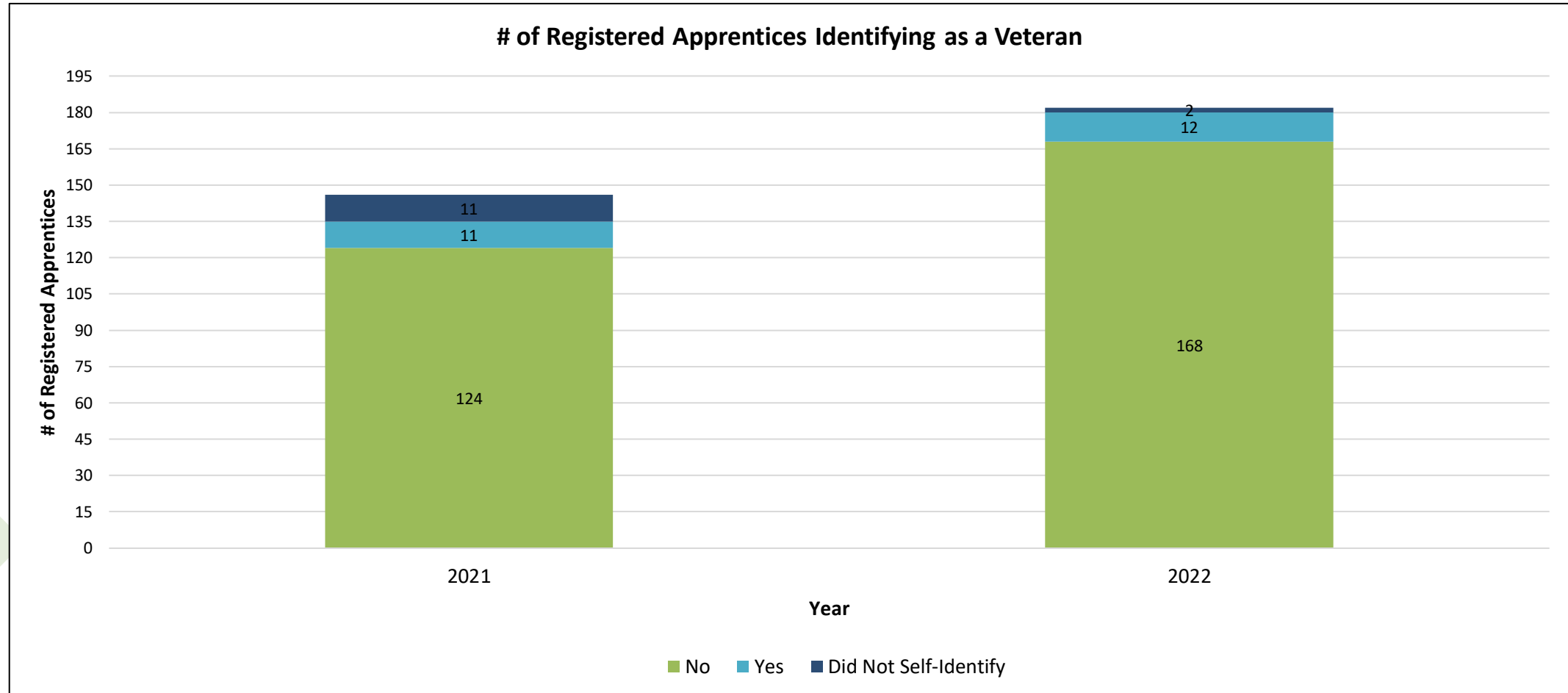




Women in Manufacturing

- Women account for less than 10% of apprentices in New York State
- 400,000 manufacturing employees in New York as of 2020
- \$1000 stipend upon course completion
- Supportive services available
- Mentoring
- Job Placement Assistance

Increasing Diversity & Equity in Apprenticeship for Manufacturing





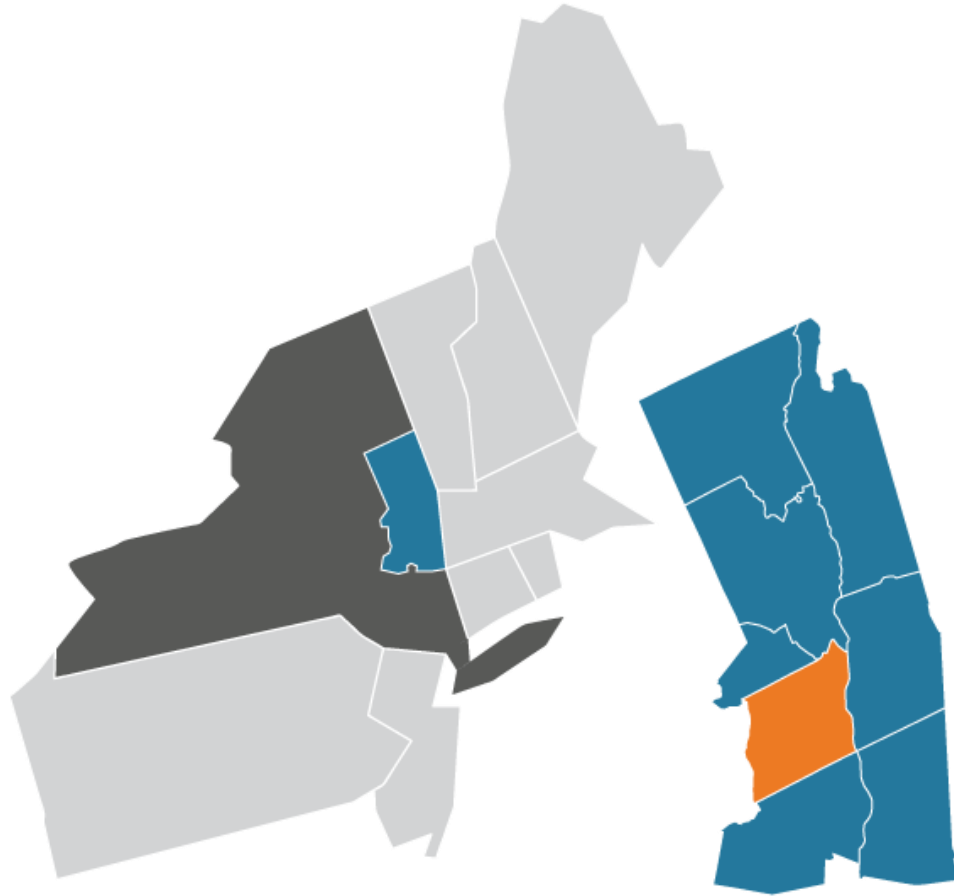
OPERATION NEXT

- Six-week welding course for transitioning soldiers
- Partnership with Mohawk Valley Community College and Giotto Enterprises
- Partnership with Clear Path for Veterans

macny.org/operation-next



Center for Economic Growth (CEG)



Apprenticeship numbers

- 54 of apprentices
- 17 signatories
- 11 trades

Brewer/Distiller



BREWER/DISTILLER (Time-Based)

APPENDIX A

O*NET CODE: 51-9012.00

A brewer should be capable of all duties related to beer making, including sourcing ingredients, recipe formulation, sanitation, wort production, fermentation, filtration, packaging, equipment maintenance, and quality control, record keeping, as well as staff supervision and regulatory compliance.

A distiller should be capable of all aspects of production, including mashing, fermentation, distilling spirits, sanitation, record keeping, as well as barreling, blending, bottling, labeling and packaging the spirits.

WORK PROCESSES

Approximate Hours

- | | |
|--|-----|
| A. <u>Safety and Workplace Orientation</u> | 150 |
| <ol style="list-style-type: none">1. Follow employer-specific safety procedures around power supply, machines, equipment, tools, and manufacturing processes.2. Recognize and minimize potential workspace hazards.3. Maintain clean work areas.4. Learn brewing/distilling terminology, including names of products, processes, raw materials, etc.5. Develop an understanding of regulatory environment, with particular attention to the United States Food and Drug Administration (FDA) Food Code and the Food Safety Modernization Act (FSMA), where appropriate.6. Learn and utilize current Good Manufacturing Practices (cGMPs). | |
| B. <u>Beer Production</u> | 720 |
| <ol style="list-style-type: none">1. Learn to read and follow recipes for appropriate beverages, such as: ales, lagers, porters, sours. | |

ATP 46-601 (09/2021)

Apprentice Training Section
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Industrial Manufacturing Technician & the Semiconductor Industry

Expanded pipeline for recruitment

- 40% out of high school
- 40% early/mid-career changes

Increased diversity among apprentices

Benefits to new hire retention



Registered Apprenticeship Graduates



Program Partners





Thank-you

For more information, please visit:
www.nysapprenticeship.org

"This project has been funded, either wholly or in part, with Federal funds from the Department of Labor, Employment & Training Administration under Contract number, 1605C2-22-C-006, the contents of this publication do not necessarily reflect the views or policies of the Department of Labor, nor does mention of trade names, commercial products, or organizations imply endorsement of same by the U.S. Government."

