

Minnesota Dual-Training Pipeline  
Advanced Manufacturing Industry Forum  
February 8, 2024

# Agenda

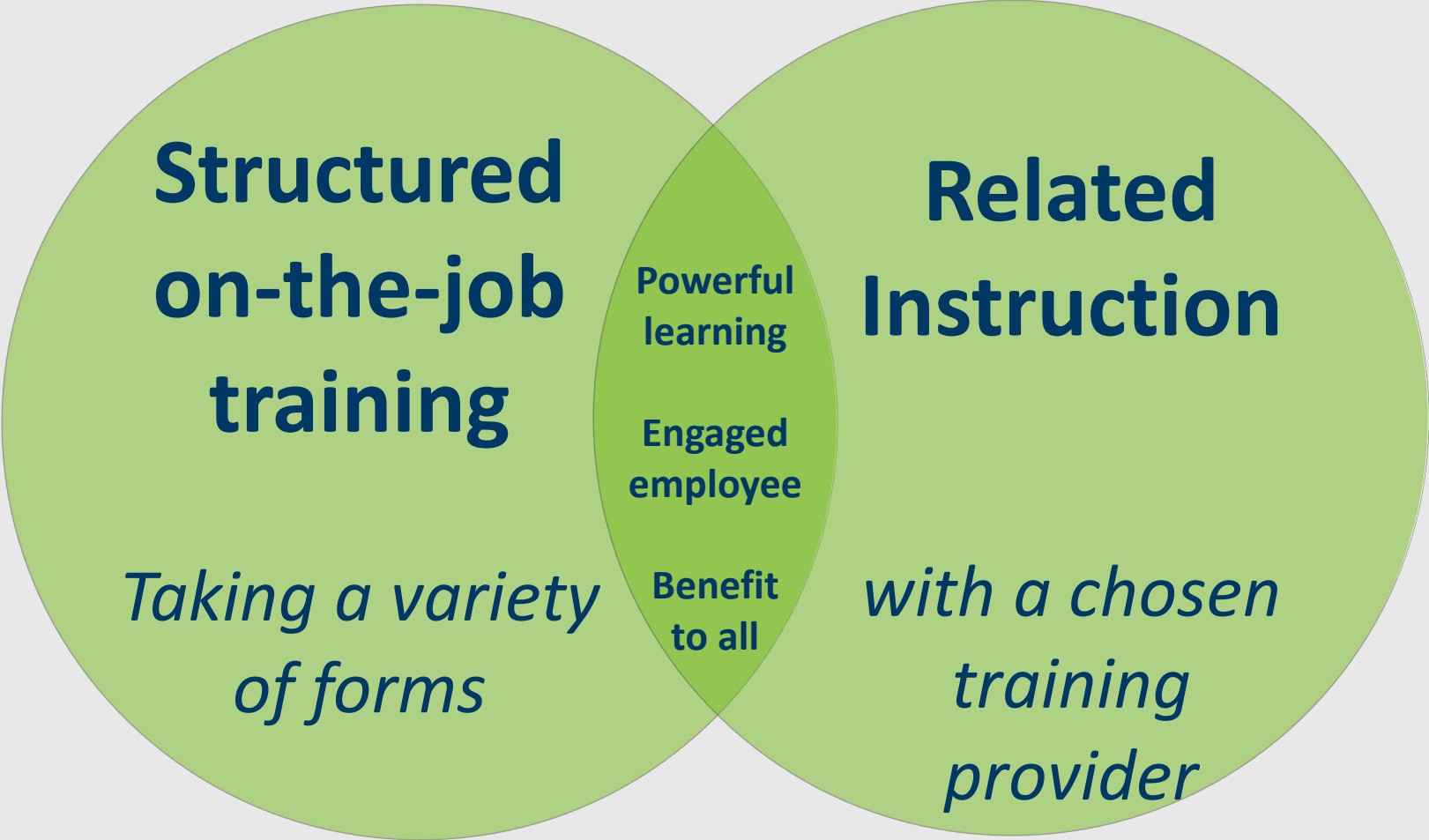
- **Introductions/ Welcome**
- **Minnesota Dual-Training Pipeline overview and updates**
- **New Advanced Manufacturing Occupation – Food Scientist/ Technologist**
- **Example of Manufacturing Employer doing Pipeline – Ultra Machining Company**
- **OHE Dual Training grant update**
- **Wrap up/ conclusion**

# What is Minnesota Dual-Training Pipeline?



- Source of support to employers to develop their own employment-based, dual-training programs
- An innovative approach to address current and future workforce needs in the key industries of **advanced manufacturing, agriculture, health care services, information technology, transportation, child care, and legal cannabis**
- Private Investment, Public Education, Labor and Industry Experience

# Employment-Based Training



# Minnesota Dual-Training Pipeline Strategies

- **Industry Forums:** *Inform and direct* Minnesota Dual-Training Pipeline on industry trends and needs through discussion and strategic planning aimed to expand dual training.
- **Competency Councils:** *Define and identify* specific occupational competencies for the seven key industries.
- **Dual-Training Consulting:** *Create and disseminate* dual training resources for employers, employees and dual trainees: toolbox, grants, and expanding mentorship networks to set up dual training.

# Advanced Manufacturing Occupations

- Computer Numerical Control (CNC) Programmer
- Coordinate Measuring Machine (CMM) Programmer
- Extrusion Molding Technician
- Flexo Technician
- Injection Molding Technician
- Logistics and Supply Chain Manager
- Machinist/ Tool and Die Maker
- Machinist / CNC Operator
- Manufacturing Engineer
- Maintenance and Repair Worker
- Manufacturing Production Supervisor
- Mechatronics Technician
- Print Press Operator
- Quality Assurance/ Food Safety Supervisor
- Quality Assurance Technician
- Robotics Operator
- Safety Technician
- Solderer
- Welder
- Industrial Production Manager

# Minnesota Dual-Training Pipeline Occupations – Factors for Adding New Occupations

- Two or more employers state need;
- Must offer a pathway to a livable wage: \$19.46/hour (based on a family with one child, one full-time and one part-time employed adult);
- Must be in-demand (Labor Market Information from DEED considered);
- Must offer a career pathway; and
- Must lend itself to the dual-training model.

## New Occupation for Advanced Manufacturing:

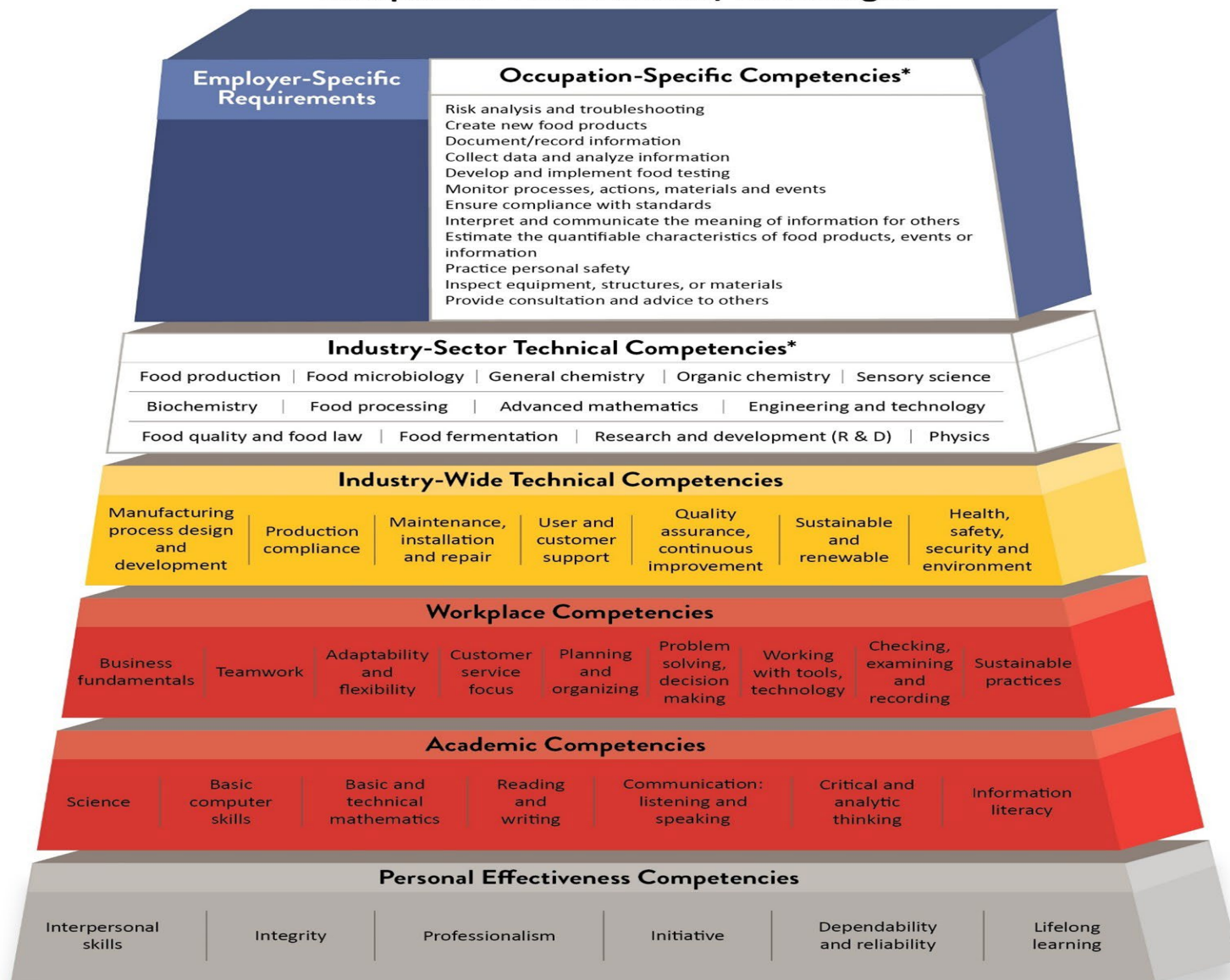
- Food Scientist/Technologist



# Minnesota Dual-Training Pipeline

## Competency Model for Advanced Manufacturing

### Occupation: Food Scientist/Technologist



# Food Scientist/ Technologist

If you have further comments or suggested edits after today's meeting, please send those to [Erik.Holtan@state.mn.us](mailto:Erik.Holtan@state.mn.us) by February 14<sup>th</sup>

Final versions will be posted by March 1<sup>st</sup>

Based on: Advanced Manufacturing Competency Model Employment and Training Administration, United States Department of Labor, April 2010.

\* Pipeline recommends the Industry-Sector Technical Competencies as formal training opportunities (provided through related instruction) and the Occupation-Specific Competencies as on-the-job training opportunities.

# Example of Manufacturing Employer doing Pipeline – Ultra Machining Company



**INNOVATORS  
TRANSFORMING  
MANUFACTURING**



## Notes from James from UMC

Discussed his prior career as an underground welder and the burnout causing him health issues.

He came to UMC out of the blue to ask what machining was. He applied and was hired and started career over at square 1.

Participated in the Dual Training Pipeline program through Anoka technical college with a good mentor at UMC.

Roles reversed, now he has moved all the way up to be the mentor to Dual trainees at UMC

# Dual Training Grant

An eligible DTG applicant must meet all of the following:

- Be an employer or organization of employers
- Have or will have a dual-training program
- Employ or will employ an eligible dual trainee
- Have or will enter into agreement with an eligible related instruction training provider
- If annual gross revenue exceeded \$25,000,000 in the previous calendar year, pay for at least 25% of related instruction costs
- If a current or prior DTG recipient, be in good standing on all grant requirements
- If a current or prior recipient of other Minnesota State grant programs, be in good standing on all grant requirements.



# Dual Training Grant

## NEW for 2024

- Eligible industries added to include Child Care, Legal Cannabis & Transportation
- Expenditures expanded to *recommended* books and supplies
- Second funding category for trainee support costs, up to \$15,000
- Dual trainee maximum changed to \$24,000 in a lifetime
  - \$6,000 annual maximum remains
- Organization of employers must identify employer partners at time of application
- Online portal system for applying and administering grant
- Financial and Capacity Review process during application for most applicants

*Note: Industries, occupations, employers partnering with an applicant/organization, and related instruction training providers cannot be added after the application deadline.*

# Dual Training Grant

The maximum grant request amount is **\$165,000** and limited among the following budget categories:

Budget Category	Grantee Maximum Amount	Grantee Match Required	Expenditures	Dual Trainee Maximum Amount
Related Instruction Costs	\$150,000	25% match required, up to \$2,000, if annual gross revenue exceeded \$25,000,000	<ul style="list-style-type: none"> <li>• Tuition</li> <li>• Fees</li> <li>• Required &amp; recommended books</li> <li>• Required &amp; recommended materials</li> </ul>	\$6,000
Trainee Support Costs  *Connected to related instruction	10% of grant request amount, up to \$15,000	None	<ul style="list-style-type: none"> <li>• Transportation and/or mileage</li> <li>• Lodging</li> <li>• Meals</li> <li>• Tutoring services</li> <li>• Translation and/or interpreter services</li> </ul>	None

# Timeline

Contact Pipeline Consultants with questions or to learn more

Employers having a difficult time filling occupations in specific industries learn about the Pipeline Dual-Training model of combining education with on-the-job training.

Plan for Dual-Training Pipeline Program for 2024-2025

Employers create a dual-training program including at least one Pipeline occupation. Establish partnership with one or more education provider. Develop on-the-job training to complement education.

Apply for Dual Training Grant

Carefully read the Request for Application on the Office of Higher Education [website](#). Complete the online application process by the **April** deadline.

Application OPENS mid-March

# Timeline



Grant Documents may include: training provider agreement, work plan and budget, dual trainee participation agreement, 2024-2025 FAFSA completion (if program is financial aid eligible).



Must register with [SWIFT](#) through State of Minnesota and must have contract in place before dual-training program can begin.



Dual Training Grant Contact:  
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Fall term at  
Minnesota State  
Colleges and  
Universities starts  
**8/26/2024**



# Upcoming Virtual Events

- **Pipeline 101:** February 27, 2024 9-10 a.m.
- **Industry Forums**
  - **Advanced Manufacturing:** February 8, 2024 9-10 a.m.
  - **Agriculture:** February 9, 2024 9-10 a.m.
  - **Health Care Services:** February 13, 2024 9-10 a.m.
  - **Child Care:** February 14, 2024 9-10 a.m.
  - **Transportation:** February 15, 2024 9-10 a.m.
  - **Legal Cannabis:** February 16, 2024 9-10 a.m.
- **2024 Speaker Series:** stay tuned!
- [2023 Annual recap](#)

# Thank You!



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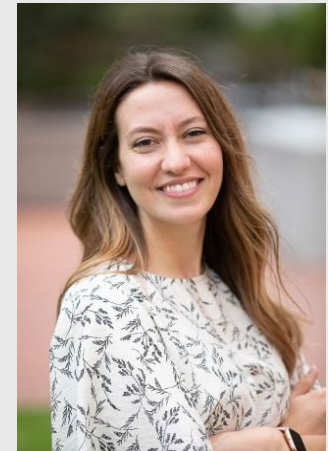
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