PIPELINE Program Advanced Manufacturing Industry Council
February 20, 2019

PIPELINE PROGRAM
INDUSTRY-BASED. EMPLOYER-DRIVEN. DUAL-TRAINING EXPERIENCE.

DEPARTMENT OF LABOR AND INDUSTRY
Agenda

- Welcome and Introductions
  - Name, role and organization
  - What characteristic do you value the most in your coworkers?
- PIPELINE Program Refresher
- Community Conversations and Industry Updates
- New Occupation Process and Updates
- Dual-Training Discussion: Where do I start?
- Dual-Training Grant Updates
- Next Steps
Quick Review

- Private Investment, Public Education, Labor and Industry Experience

- An innovative approach to address current and future workforce needs in key industries of Agriculture, Advanced Manufacturing, Health Care Services and Information Technology

- A mechanism to develop dual-training programs that are industry-based and employer-driven
Employment-Based Training

Structured on-the-job training

Taking a variety of forms

Related Instruction

with a chosen training provider

Powerful learning
Engaged employee
Benefit to all

Benefit to all
PIPELINE Program Strategies

- **Industry Councils:** *Inform* and *direct* PIPELINE Program 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 four 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.
Community Conversations

October 2018 - January 2019: Meeting with employers and educators wherever they are...

- Mankato
- St Cloud
- Marshall
- Rochester
- Alexandria
- Bemidji
- Duluth
- Burnsville
- Brainerd
- Brooklyn Park
- White Bear Lake
- Moorhead (Rescheduling TBD)
Community Conversations: What did we hear?

Top Three Takeaways from the 11 Community Conversations:

1. Workforce continues to be a huge challenge for employers statewide.
2. Employers have a wide range of interaction with area education providers.
3. Many employers are interested in dual training, but are often intimidated and do not necessarily know where to start.
• Did what we hear at our Community Conversations fit with what you’re experiencing when it comes to dual training?

• Are there other key challenges for your business we should know about?
Current occupations in advanced manufacturing:

- Flexo technician
- Machinist/CNC Operator
- Machinist/Tool and Die
- Quality Assurance Technician – General
- Quality Assurance Technician – Food Safety Supervisor
- Logistics and Supply Chain Manager
- Safety Technician
- Maintenance and Repair Worker
- Welder
- Mechatronic Technician
How does PIPELINE add new occupations?

- Two or more employers state need;
- Must offer a livable wage: $15.40/hour (statewide);
- Must be in-demand (Labor Market Information: Three stars is ideal);
- Must offer a career pathway; and
- Must lend itself to the dual training model.
New Occupations

Computer Numerical Control (CNC) Programmer

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

*The PIPELINE Program 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.
New Occupations

Coordinate Measuring Machine (CMM) Programmer
New Occupations

Print Press Operator

PIPEDLINE Program
Competency Model for Advanced Manufacturing
Occupation: Print Press Operator

Employer-Specific Requirements

Occupation-Specific Competencies

Press
- Plate set up and clean up
- Plate storage
- Roller setting

Digital
- Clean and adjust print heads

Industry-Sector Technical Competencies*

Safety and environmental considerations
- Pre-press fundamentals (layout)
- Graphic arts
- Postal regulations
- Color software
- Troubleshooting
- Measurement
- Press components
- Color measurement and balance
- Color theory

Industry-Wide Technical Competencies

Manufacturing, process, design, and development
- Maintenance, installation, and repair
- Supply chain logistics
- Quality assurance, continuous improvement
- Sustainable and green manuf.
- Safety, health, and environment
- User and customer support

Workplace Competencies

Business basics
- Teamwork
- Adaptable and flexible
- Technical instructions
- Planning
- Problem solving, decision making
- Working technology
- Checking, examining, and recording
- Sustainable practices

Academic Competencies

Science principles
- Basic computer skills
- Mathematics
- Reading and writing
- Communication listening and speaking
- Critical and analytic thinking
- Information literacy

Personal Effectiveness Competencies

Interpersonal skills
- Integrity
- Professionalism
- Initiative
- Dependability and reliability
- Lifelong learning

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

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PIPELINE DUAL TRAINING: WHERE DO I EVEN BEGIN?
Common Steps to Create Employment-Based Dual-Training Programs

1. Determine the main occupation / job your company would like to address with dual training.

2. Contact PIPELINE Team to help you work through Steps 3-10

3. Determine what a person in the given occupation needs to know to be successful at your job in the company.
4. Use PIPELINE Program’s Competency Pyramid as a guide to help determine what makes the most sense to be learned in On-the-Job-Training and Related Instruction.
ROLE DUAL TRAINING: Where do I start?

5. Explore different related instruction providers options.

   a) Check out PIPELINE Program’s related instruction inventory: https://secure.doli.state.mn.us/pipeline/pipelinelookup.aspx

6. Review the curriculum of the education provider you prefer and then select them as the related instruction training provider for your company/organization.
7. Consider best approaches for your organization for On-the-Job-Training (OJT)


8. Determine who in your company will lead your On-the-Job-Training. This could be a lead co-worker, a supervisor or training coordinator for example.

a) Check out OJT tracking tools at: https://www.dli.mn.gov/business/workforce/pipeline-dual-training-tools
9. Recruit either a new employee OR incumbent worker at your company to participate in dual training.

10. Obtain funding from the state, local community or your company’s own assets to begin dual training and then you are ready to actually begin dual training.

Congratulations!
Since its inception in 2015, OHE has administered 124 grants to 75 unique employers;

913 employees have benefited from the PIPELINE Dual Training Grant Program;

PIPELINE Program Consultants and the OHE Grant Administrator continue outreach to new employer partners, averaging about one new employer each day.
KEY DATES:

- Grant Round #8: Opens Monday, April 1, 2019 and closes on Friday, May 17, 2019
- Workshop for related instruction providers: Wednesday, March 6, 1:00 – 4:00
- Workshop for employer grantees: Thursday, March 7, 1:00 – 4:00
Next Steps

- **Speaker Series:** March 14 from 9am-10:30am on Creating Effective On-the-Job-Training (OJT) with Jonathan Stuart. Event will be at Minnesota Department of Labor and Industry.

- **Community Conversations:** Moorhead and possibly more in the future.

- **Next Industry Council Meeting:**
  - Tuesday, June 11, 2019
Thank you.

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