

# MINNESOTA PIPELINE PROJECT

**PRIVATE INVESTMENT, PUBLIC EDUCATION  
LABOR AND INDUSTRY EXPERIENCE**



**ADVANCED  
MANUFACTURING**



**AGRICULTURE**



**HEALTH CARE  
SERVICES**



**INFORMATION  
TECHNOLOGY**

Information Technology Industry Council

June 23, 2015

Department of Labor and Industry

# Agenda

1. **Welcome and Introductions**
2. **MN PIPELINE Updates**
3. **Introduction of New Legislation**
4. **MN PIPELINE Project Discussion and Feedback**
5. **Next Steps and Closing**



# Minnesota PIPELINE Project

**Private Investment, Public Education, Labor and Industry Experience**

State agencies to work with recognized industry experts, representative employers, higher education institutions, and labor representatives to define competency standards for occupations in:

- advanced manufacturing
- agriculture
- health care services
- information technology



# PIPELINE Project Objectives

- **Develop and enhance Minnesota skilled workforce**
- **Participation from industry leaders**
- **Expand dual – training and registered apprenticeship in Minnesota**



## Dual-training and Registered Apprenticeship

<b>Dual-training:</b>		<b>Registered Apprenticeship:</b>
Dual-trainee is an employee of participating employer		Registered Apprentice is an employee of sponsoring employer
Competency Standards	Work Process	Work process: 2,000 hours or equivalent of structured OJT
	Related Instruction	Related technical instruction: 144 hours each year or equivalent
		Safety training: 50 hours
		Progressive wage schedule
		State issued completion certificate

# PIPELINE Project Plan

## Component #1

Convene *Industry Councils* for four industries:

- Advanced Manufacturing
- Agriculture
- Healthcare Services
- Information Technology

## Component #2

Develop *competency standards* for up to four occupations in each industry.

## Component #3

Progress report and implementation of industry council *recommendations*.



# Minnesota PIPELINE Project

## Component #1

Convene *Industry Councils* for four industries



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## Industry Councils

**249 participants in Industry Councils**

- **95 employers and industry association representatives**
- **46 education representatives**
- **21 labor and labor/education representatives**
- **87 government, legislative and other**



## Industry Councils Overview



Understanding requirements of the industry	Gathering information	Feedback and next steps	Reporting outcomes
<p>Identify current and future industry workforce needs.</p> <p>Discuss current state of each industry.</p>	<p>Select at least three occupations for each industry.</p> <p>Identify experts to assist with occupational competency validation.</p>	<p>Explore dual-training/ apprenticeship delivery models.</p> <p>Receive feedback to implement dual-training/ apprenticeship in each industry.</p>	<p>2015 Progress Report to the Minnesota State Legislature submitted January 2015.</p>

## **Information Technology in Minnesota**

**Information Technology (IT) has grown in importance in the state of Minnesota, providing more than 88,600 jobs. IT occupations are projected to gain more than 8,000 new jobs through 2022.**

**65 people participated in the Information Technology Industry Council meetings**

- 30 Members of industry or industry associations**
- 12 education representatives**
- Four labor and labor/education representatives**
- 19 government, legislative and other**



# Industry Council identified occupations

## Information Technology

- Security Analyst
- Web Developer
- Software Developer
- Service Desk/Front Line Support or Computer User Support Specialist



# Minnesota PIPELINE Project

## Component #2

Develop *competency standards*



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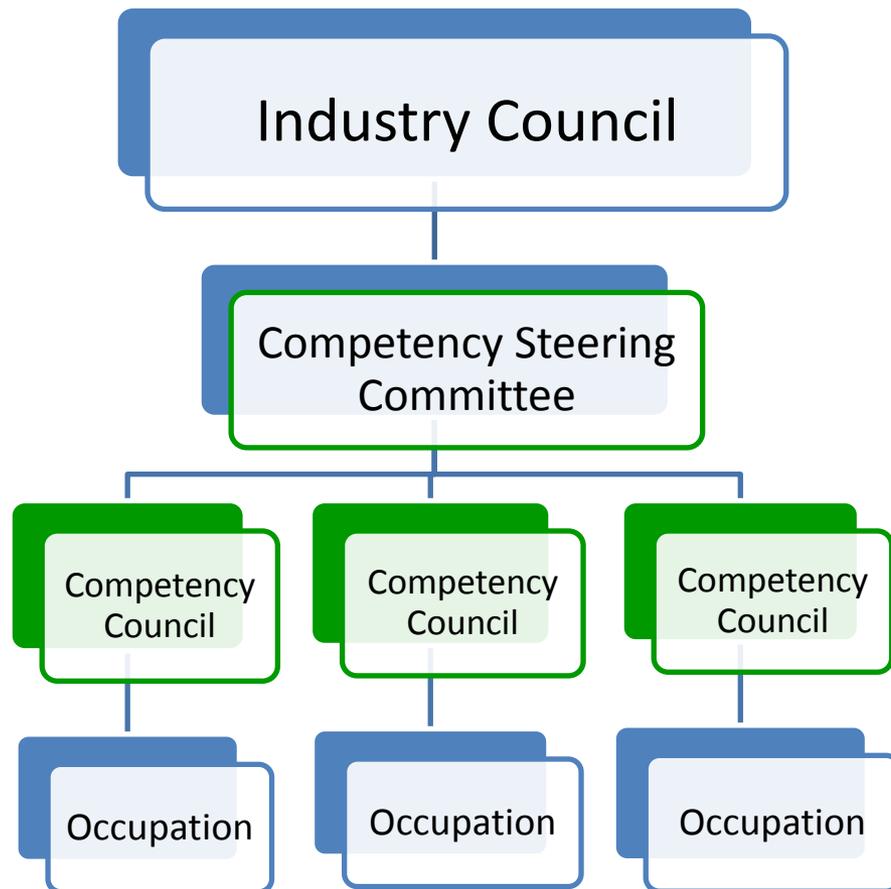


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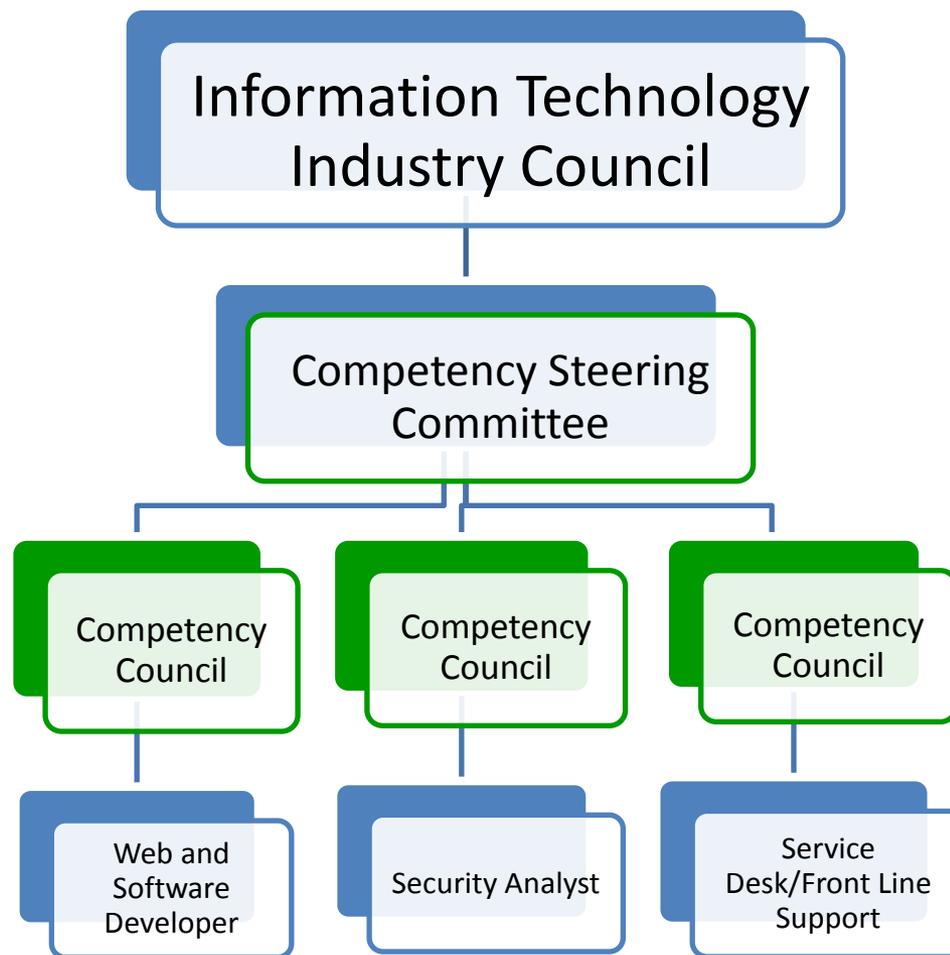
# Competency Development Approach



## Competency Council Overview

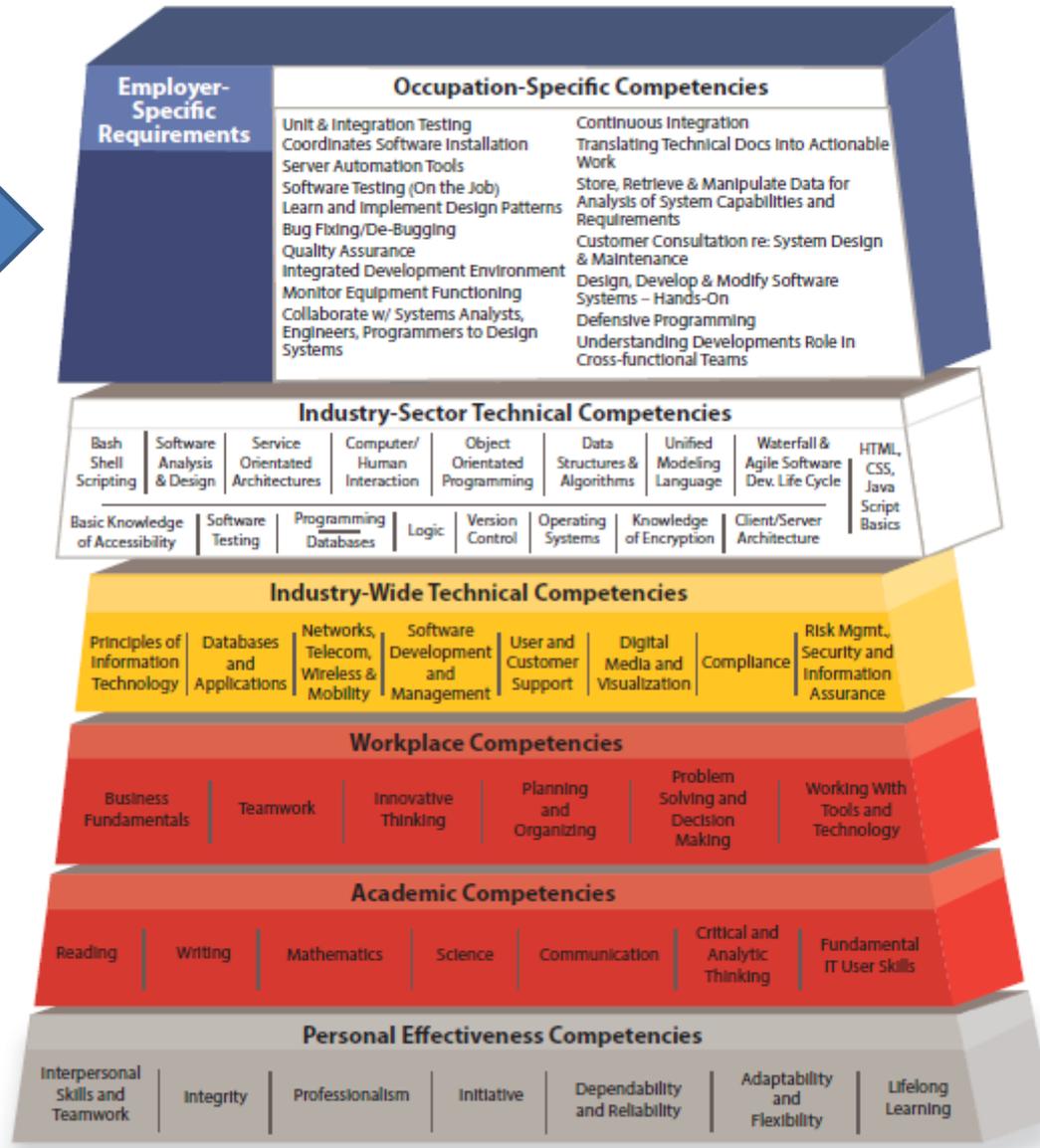
Understanding requirements of the industry	Gathering information	Feedback and next steps	Reporting outcomes
<p>Convene Industry Planning Teams to provide guidance with validation processes in their industry.</p> <p>Identify occupational SMEs.</p> <p>Help prioritize occupational competency work.</p>	<p>Research occupations identified in Industry Councils by using educational programs, current apprenticeship programs in US and international, and US DOL competency model.</p>	<p>Utilize occupational experts in competency councils: employers, related instruction providers and labor representative.</p> <p>Identify and validate competencies through facilitated discussions, and electronic forms.</p>	<p>PIPELINE Competencies and findings will be posted on DLI MN PIPELINE Project website June 30, 2015.</p>

# Information Technology Services Competency Development Approach





## Occupation: Web Developer - Front End



# Minnesota PIPELINE Project

## Component #3

### *Industry recommendations*



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# 2015 Progress Report to the Minnesota Legislature



<http://www.dli.mn.gov/pipeline.asp>

# PIPELINE Project Recommendations

1. Complete occupational competency standards for all occupations identified through the PIPELINE Project.
2. Build industry Competency Councils for each targeted industry to develop competency standards for additional occupations in each industry.
3. Establish dual-training committees for a PIPELINE project identified occupation in each targeted industry.
4. Develop templates and implementation tools for new dual-training programs for all occupations identified through the PIPELINE project



# PIPELINE Project Recommendations

5. Create and execute a plan for dual-training outreach, exposure, and awareness.
6. Align dual- training delivery system to other workforce initiatives.
7. Develop research and analysis tools to determine dual-training system costs and benefits.
8. Explore providing financial support to make dual-training programs viable and sustainable for employers and employees.



# Introduction of PIPELINE Project 2015 – 2017 by Senator Bonoff



# PIPELINE Project Discussion and Feedback

Discussion and Provide large group:

- Recommendations on implementing related instructions and OJT dual training programs in IT industry through PIPELINE II grants.



<b>Organizational Models</b>	Single- employer	Multiple-employers	Employer Associations
<b>Delivery Models</b>	Certification or Competency Based	Time based	Hybrid

**Thank you for your dedication and participation in  
the PIPELINE Project 2014 - 2015!**

