

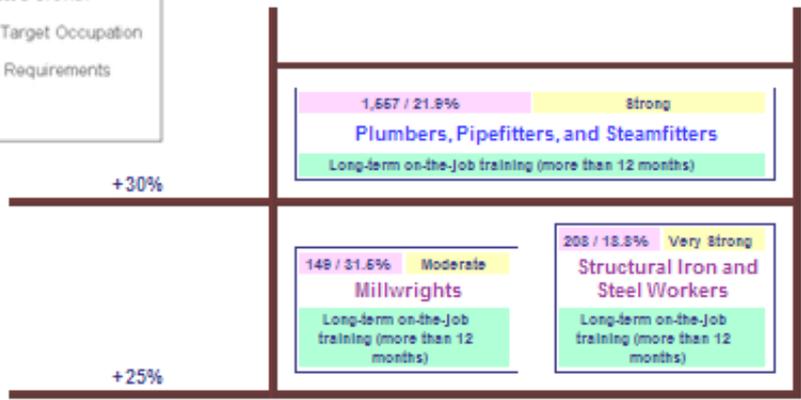
Welders, Cutters, Solderers, and Brazers

Note: The rungs illustrate the approximate difference in wage level relative to the occup selected. They **do not** imply that each level must be traversed to attain the target job. To what occupations are most directly linked to an occupation on a rung, click the occupation go to that occupation's Career Ladder page. To see a description of the occupation, click [he](#)

To open a print-ready PDF of this ladder, click [here](#).

Key ?

- Employment/Projected Growth
- Strength of Link to Target Occupation
- Education/Training Requirements
- Wage Range



Target Occupation Wage **\$19.00-\$20.99**

Estimated Employment: n/a	Wage Range: \$19.00-\$20.99
Welders, Cutters, Solderers, and Brazers	
Education/Training requirements: Long-term on-the-job training (more than 12 months)	

\$19.00-\$20.99 Target Occupation Wage



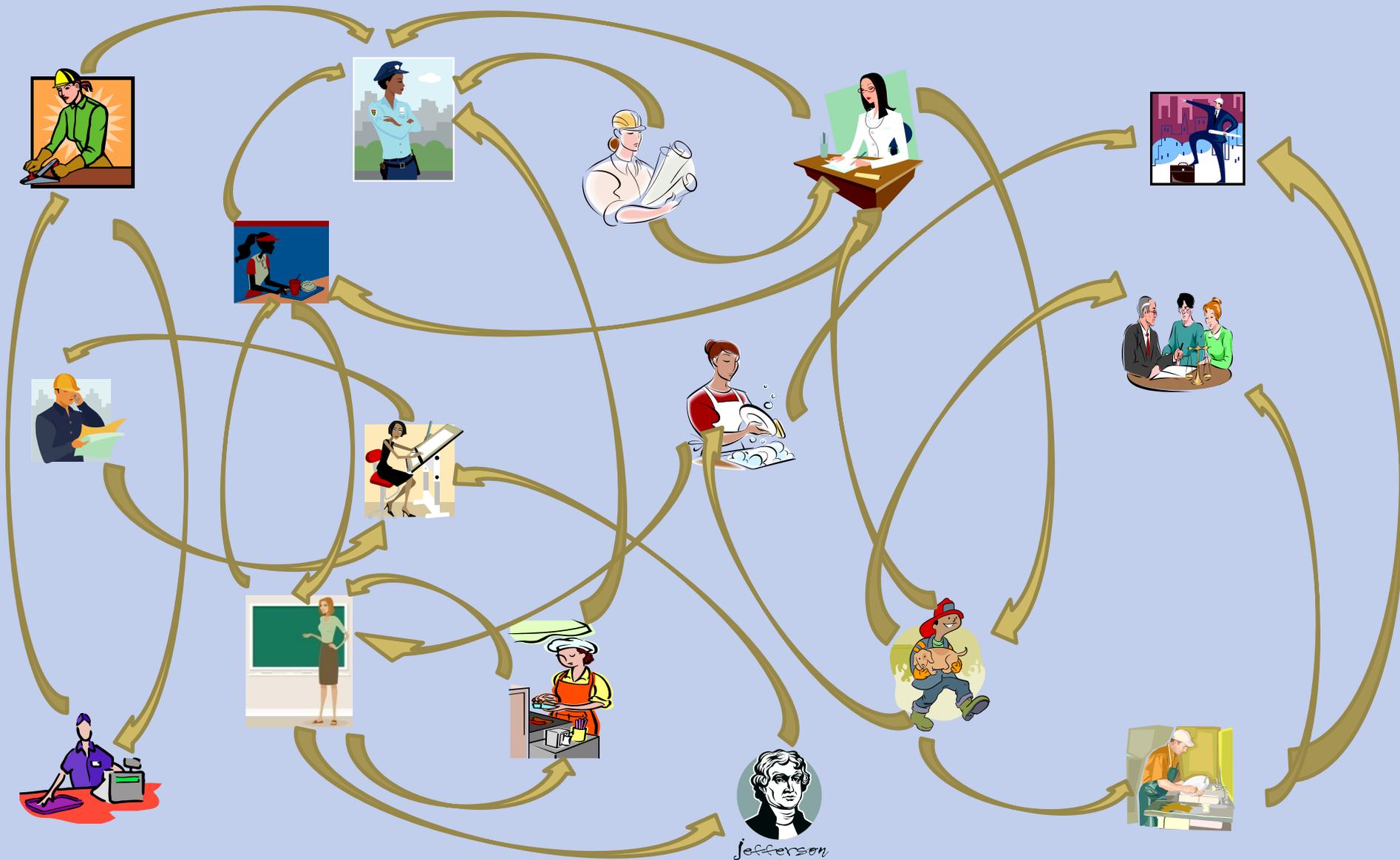
The Alaska Career Ladder

Apprenticeship Conference
April 30, 2009

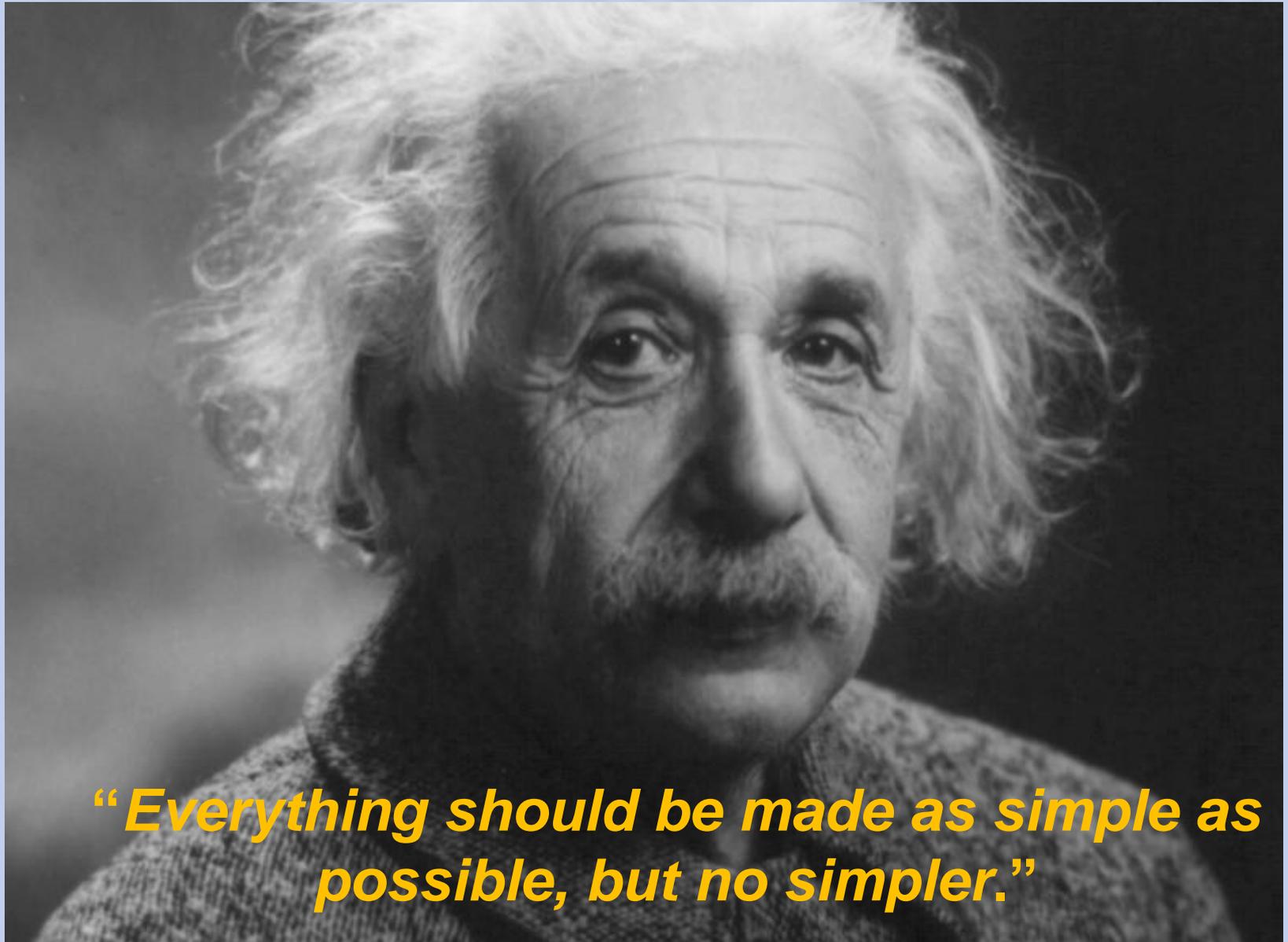
Brynn Keith, Chief
Alaska Department of Labor
and Workforce Development,
Research and Analysis
Section



Looking at the big picture:

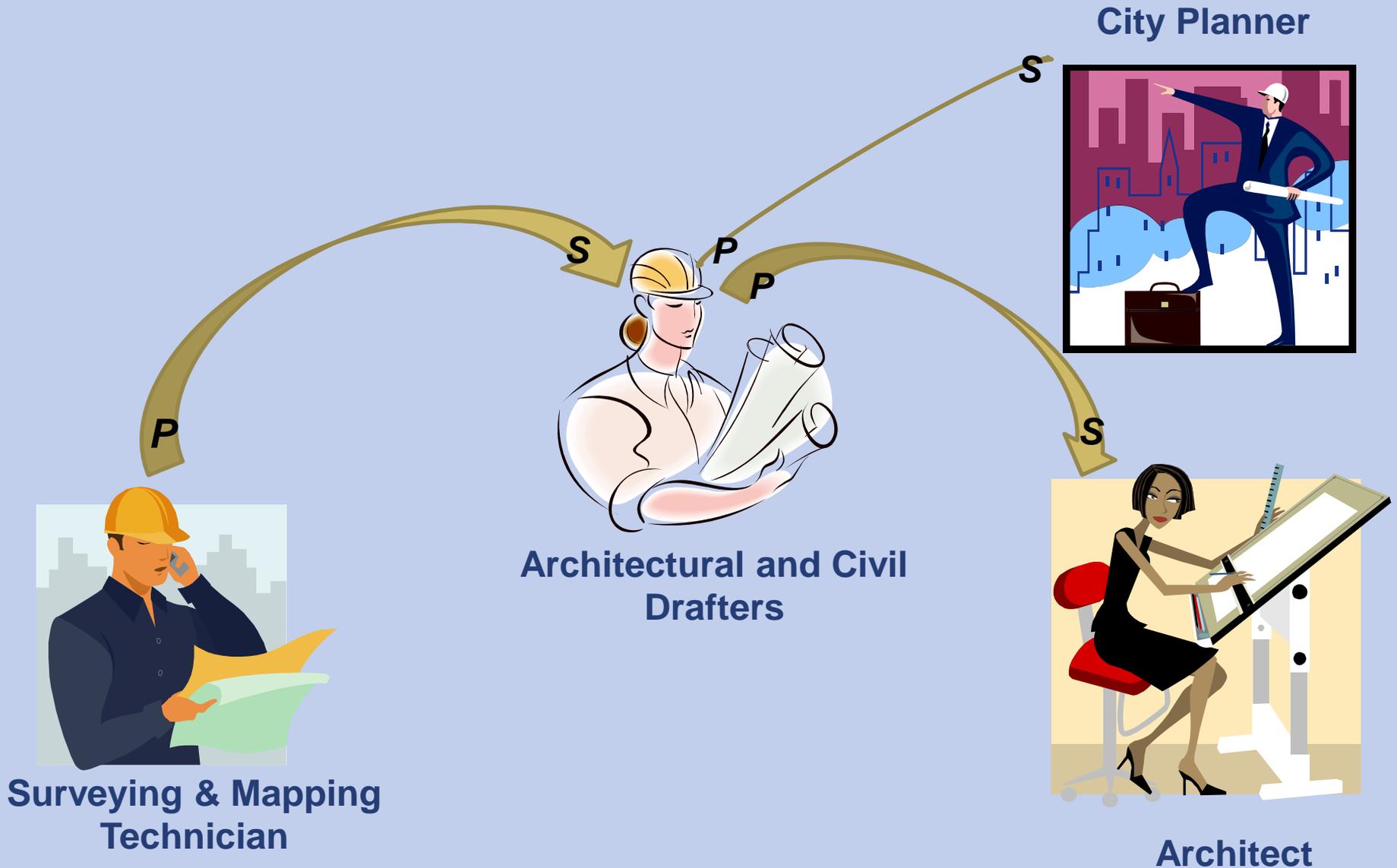


Follow Einstein's Advice:



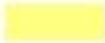
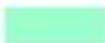
“Everything should be made as simple as possible, but no simpler.”

Predecessor to Successor Links



Licensed Practical and Vocational Nurse

Key 

-  Employment/Projected Growth
-  Strength of Link to Target Occupation
-  Education/Training Requirements
-  Wage Range



+35%

Target Occupation Wage \$21.00-\$23.99

Estimated Employment: 593 / Growth Rate: 18.0%	Wage Range: \$21.00-\$23.99
Licensed Practical and Licensed Vocational Nurses	
Education/Training requirements: Postsecondary vocational training	

\$21.00-\$23.99

Target Occupation Wage



Construction Laborer– (-5% – 25%)

- **Helpers--
Pipelayers,
Plumbers,
Pipefitters, and
Steamfitters**
- **Fence Erectors**
- **Helpers--
Brickmasons,
Blockmasons,
Stonemasons, and
Tile and Marble
Setters**
- **Helpers--
Installation,
Maintenance, and
Repair Workers**
- **Helpers--
Carpenters**

Target Occupation Wage \$17.00-\$18.99

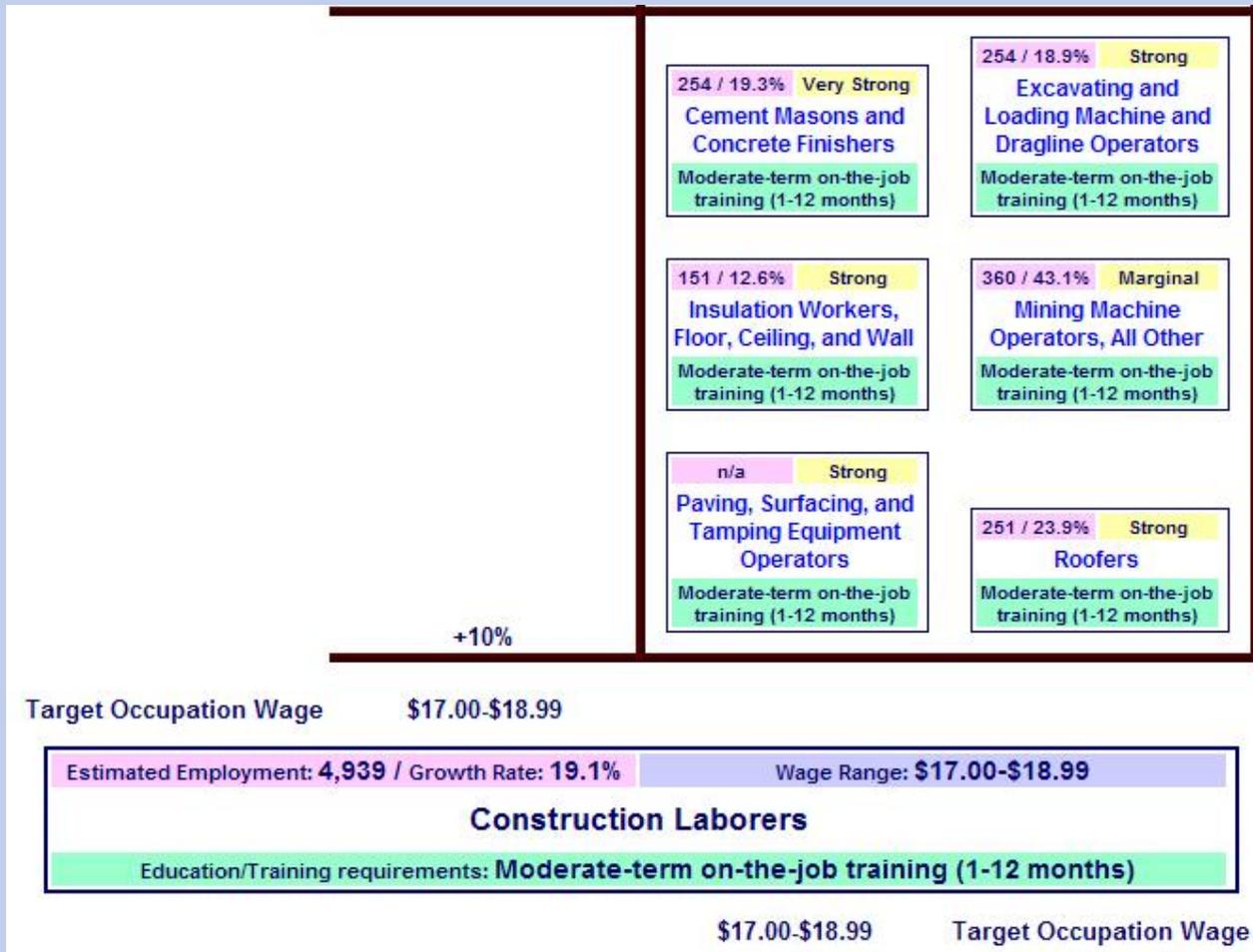
Estimated Employment: 4,939 / Growth Rate: 19.1%	Wage Range: \$17.00-\$18.99
Construction Laborers	
Education/Training requirements: Moderate-term on-the-job training (1-12 months)	

\$17.00-\$18.99 Target Occupation Wage

<table border="1"> <tr> <td>172 / 22.7%</td> <td>Moderate</td> </tr> <tr> <td colspan="2" style="text-align: center;">Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters</td> </tr> <tr> <td colspan="2" style="text-align: center;">Short-term on-the-job training (less than 1 month)</td> </tr> </table>	172 / 22.7%	Moderate	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters		Short-term on-the-job training (less than 1 month)		-5%						
172 / 22.7%	Moderate												
Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters													
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<table border="1"> <tr> <td>n/a</td> <td>Very Strong</td> </tr> <tr> <td colspan="2" style="text-align: center;">Fence Erectors</td> </tr> <tr> <td colspan="2" style="text-align: center;">Moderate-term on-the-job training (1-12 months)</td> </tr> </table> <table border="1"> <tr> <td>n/a</td> <td>Strong</td> </tr> <tr> <td colspan="2" style="text-align: center;">Helpers-- Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters</td> </tr> <tr> <td colspan="2" style="text-align: center;">Short-term on-the-job training (less than 1 month)</td> </tr> </table>	n/a	Very Strong	Fence Erectors		Moderate-term on-the-job training (1-12 months)		n/a	Strong	Helpers-- Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters		Short-term on-the-job training (less than 1 month)		-10%
n/a	Very Strong												
Fence Erectors													
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820 / 14.2%	Moderate												
Helpers--Installation, Maintenance, and Repair Workers													
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<table border="1"> <tr> <td>276 / 17.4%</td> <td>Strong</td> </tr> <tr> <td colspan="2" style="text-align: center;">Helpers--Carpenters</td> </tr> <tr> <td colspan="2" style="text-align: center;">Short-term on-the-job training (less than 1 month)</td> </tr> </table>	276 / 17.4%	Strong	Helpers--Carpenters		Short-term on-the-job training (less than 1 month)		-25%						
276 / 17.4%	Strong												
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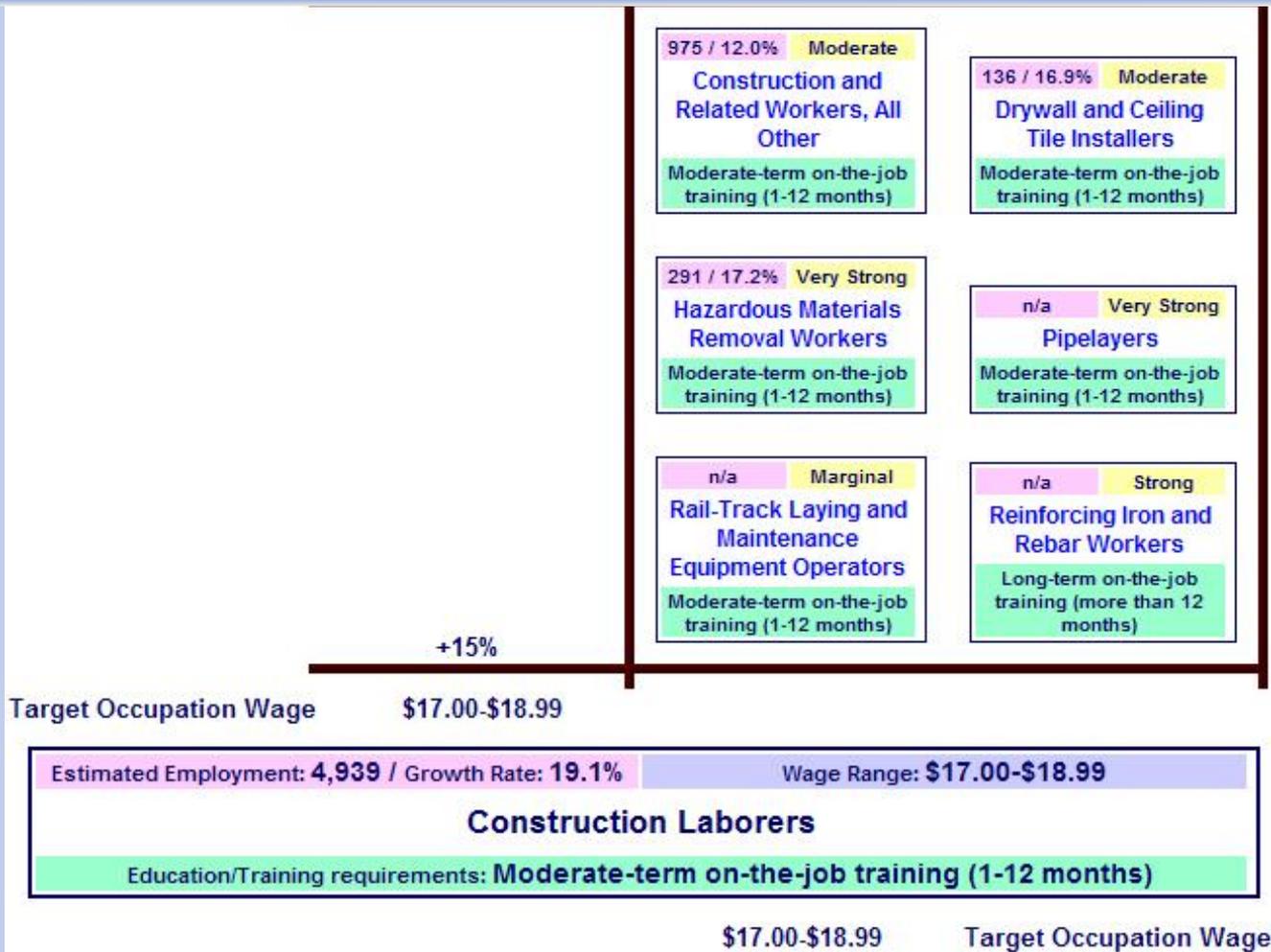
Construction Laborer– (+10%)

- Paving, Surfacing, and Tamping Equipment Operators
- Roofers
- Insulation Workers, Floor, Ceiling, and Wall
- Mining Machine Operators, All Other
- Cement Masons and Concrete Finishers
- Excavating and Loading Machine and Dragline Operators



Construction Laborer– (+15%)

- **Reinforcing Iron and Rebar Workers**
- **Rail-Track Laying and Maintenance Equipment Operators**
- **Pipelayers**
- **Hazardous Materials Removal Workers**
- **Drywall and Ceiling Tile Installers**
- **Construction and Related Workers, All Other**



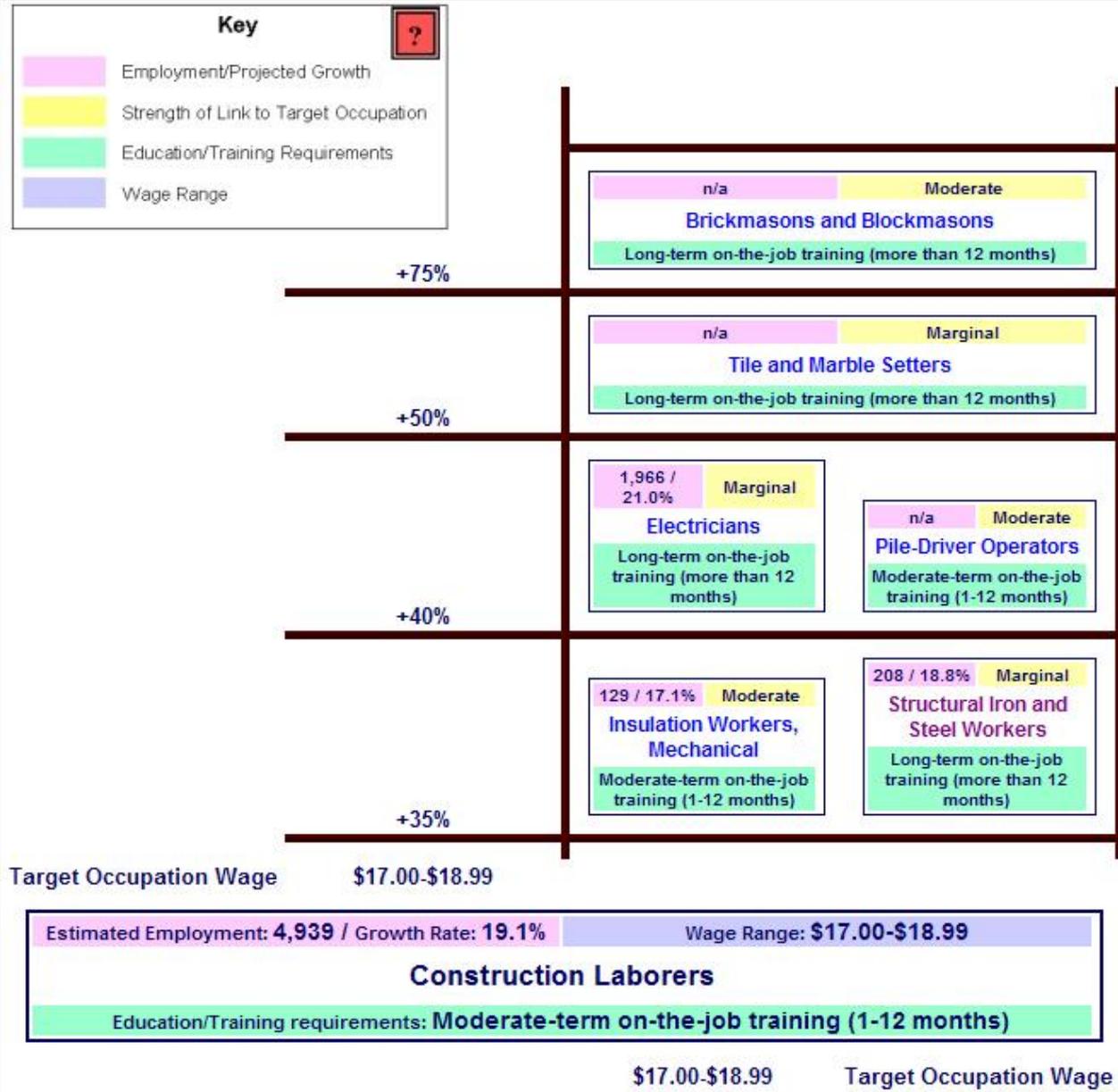
Construction Laborer– (+25%)

- Sheet Metal Workers
- Floor Layers, Except Carpet, Wood, and Hard Tiles
- Explosives Workers, Ordnance Handling Experts, and Blasters
- Earth Drillers, Except Oil and Gas



Construction Laborer– (+35% – +75%)

- Brickmasons and Blockmasons
- Tile and Marble Setters
- Pile-Driver Operators
- Electricians
- Structural Iron and Steel Workers
- Insulation Workers, Mechanical



The Resources

Alaska's Occupational Database ★★★★★

Supporting Roles:

- Alaska Permanent Fund Dividend
- Occupational Employment Statistics
- O*NET
- Analyst's Judgment

Alaska's Occupational Database

- Collected from UI Tax filings by employers.
- Occupation linked by SSN to individual employees.
- Includes location of work information by employee.

The Approach

- 1) Emphasis more on quantitative, less on qualitative.
- 2) Confirm quantitative results with supportive qualitative data.

The Approach (cont.)

Quantitative Analysis – How do we do it?

- 1) Created a longitudinal database of Alaska workers.**
- 2) Tracked changes in reported occupations over time.**
- 3) Figured out who went where.**

Test 3 – Relative Wages



\$11.00 to \$12.99



\$15.00 to \$16.99



“AJ”, aka “Confirmation of Relevancy”

Can be based on various factors, including:

- O*NET designation as a “Related Occupation”;

- SOC descriptions indicate same fields or common skills;

- O*NET job characteristics indicate relevancy

 - Similarity of tasks & work activities

 - Tools & technologies used

 - Knowledge, skills & abilities

 - Education and training levels

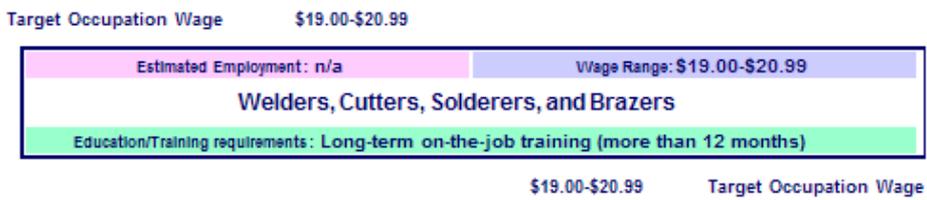
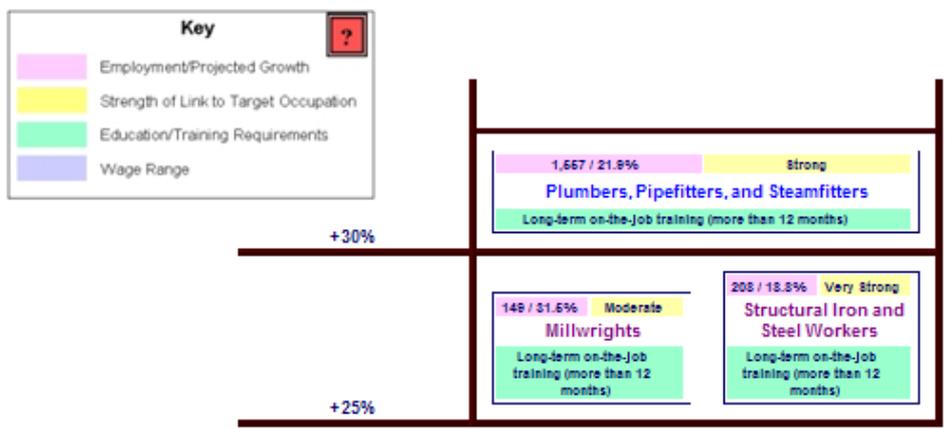
Alaska Career Ladder

Home Occupations List Occupation Description O*Net PDF FAQs Using the Career Ladder

Welders, Cutters, Solderers, and Brazers

Note: The rungs illustrate the approximate difference in wage level relative to the occupation selected. They **do not** imply that each level must be traversed to attain the target job. To see what occupations are most directly linked to an occupation on a rung, click the occupation name. To go to that occupation's Career Ladder page. To see a description of the occupation, click [here](#).

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