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Evaluation Evidence about the Effectiveness of Public Training Programs for Incumbent Workers

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Evaluation Evidence about the Effectiveness of Public Training Programs for Incumbent Workers

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Public Job Training

- Most support goes to non-employed individuals
- Have had customized job training for employed individuals for attraction/expansion purposes
- Now using training for incumbent workers for retention/competitiveness purposes

Descriptive Statistics from Subsidized Employee Training Survey, by Year

Characteristic	Year			
	2001	2002	2003	2004
State Spending	\$433.2 million	\$367.4 million	\$340.8 million	\$324.3 million
Total Firms	7,440	9,018	7,042	7,793
Total Workers Trained	521,989	540,331	470,266	477,047
\$/firm	\$58,540	\$40,732	\$48,409	\$41,630
\$/worker	\$830	\$680	\$725	\$680
Workers trained/firm	70.2	59.9	23	22
Number of states reporting	21	23	23	22
Percent of U.S. population	53.14%	55.54%	55.54%	54.88%
Extrapolated total U.S. spending ^a	\$815.2 million	\$661.5 million	\$613.6 million	\$590.9 million

Source: Upjohn Institute Subsidized Employee Training Survey.

Note: ^aCalculated as Total State Spending from the first row of the table divided by percent of U.S. population in the eighth row of the table

“Average” State Program

- 200-300 firms per year
- \$40-\$60K per firm
- 60-70 workers/firm

Massachusetts Workforce Training Fund Grant Program

- Funded by surcharge on state UI tax — \$21M
- Started in 1999
- Competitive bids by firms
- Must include 100% match

Massachusetts WTF Average Grant

- \$60K
- 18 months
- 100 workers
- Manufacturing sector (65%)

Massachusetts WTF Evaluation Self-Report

- Improve productivity? 90.8%
- Improve competitiveness? 91.8%
- Other benefits? 91.2%

Massachusetts WTF

- Return on Investment
 - Workers
 - Firms
 - Massachusetts

Self-Reported Data

4. Were there any new hires as a direct result of the training program?

Yes No

4.a. If yes, how many?

5. Were any layoffs prevented as a direct result of the training Program?

Yes No

5.a. If yes, how many?

Self-Reported Data

6. Have you increased (or, within the next six months do you expect to increase) wages as a direct result of this grant?

Yes No

6.a. If yes, what was the average wage increase?

7. Did other employees, not trained through the grant, also receive a wage increase during the same period?

Yes No

7.a. If yes, what was the average increase?

Worker Returns

- 35% of respondents had wage differential (7a-6a)
- Mean = 8%
- Return = [2.8, 8.0]; midpoint = 5.4

Return on Investment — Firms

- Productivity effect

State average VA/Employee Comp = 1.595

- Productivity Effect = \$176–\$503M in Δ Value Added

Return on Investment — Firms

- Employment effect
3,995 new hires = 1.7% employment growth
- CRTS → \$306M in Δ Value Added
- Total Δ in VA = \$472–\$809M

Return on Investment — Firms

- Corporate profit rate on VA = 11.0%
- Profits ↑ by \$53-\$89M
- Cost (Match) = \$49-\$73M
- ROI = 16.6% at midpoints

Return on Investment — Massachusetts

- Of 3,995 jobs, 2,784 were export-based
- Multiplier of 2.0 → 5,568 jobs
- MA cost per job = \$8,750

Return on Investment — Massachusetts

- State personal income/job = \$66,014
- 5,568 jobs → +\$377M in PI

Return on Investment — Massachusetts

- Productivity effect (above) = \$176 – \$503M

= \$151 – \$431M in PI

- Total personal income ↑ \$518 – \$798M
- State revenues ↑ \$77 – \$118m (14.77%)

Return on Investment — Massachusetts

- 5,568 new jobs → 7,022 population growth
- Non-welfare state government expenditures per capita = \$4,211
- State expenditure ↑ by \$30M

Return on Investment — Massachusetts

- Net revenue = \$97 – \$88M
- WTF cost = \$49M
- 1st year return = 38.9%

Rates of Return

- Worker 5.4%
- Firm 16.6%
- Commonwealth 38.9%

Summary

- Effective economic development tool
 - \$8,750/new job created
- High rates of return may imply underinvestment
- Sharp decline in level of funding
 - 30% drop from 2001 to 2004