

1st View/ Economic Forecasting

January 20, 2011







2006 – The wake up call

Shortages of skilled construction workers impacting:

Productivity
Build Quality
Deadlines
Safety



Projected Demand 2011-2017

- For British Columbia
- For VI (20%)
- In the pipeline on VI 4,034 apprentices
 minus 43% attrition
 - projected demand by 2017
 - 6,600-2,299 =

- 33,000 35,000
 - 6,600 7,000
 - 2,299

4,301



Apprenticeship Revisited

Canadian Apprenticeship Forum Research:

Costs and Benefits

1000 employers across Canada

18 trades

Small employers and large



Research Outcomes

Costs

- Wages and benefits
- Opportunity costs
 journeyman time
 material wastage
 - Disbursements
 training
 wages during training
- Administration

Benefits

- Required support decreases over time
- Journeymen are more productive when they have apprentices
- Charge out rates increase over time
- Homegrown trades people were 29% more productive

ROI – 10 Construction Trades

Trade	(Years)	Cost (\$)	Benefit (\$)	Net Benefit (\$)	Ratio
Boilermaker	4	246,889	473,696	226,807	1.92
Bricklayer	4	237,687	316,853	79,166	1.33
Cabinetmaker	4	180,369	247,298	66,929	1.37
Construction Electrician	4	196,811	293,048	96,237	1.49
Construction Millwright and					
Industrial Mechanic	4	254,287	403,272	148,985	1.59
Heavy Duty Equipment Mechanic	4	252,371	497,636	245,264	1.97
Machinist	4	204,921	383,877	178,955	1.87
Plumber	4	237,681	329,728	92,047	1.39
Refrigeration and Air					
Conditioning Mechanic	4	240,060	344,601	104,541	1.44
Sheet Metal Worker	4	258,160	322,022	63,862	1.25
			ROI = \$1.56		



1000 employers across Canada

