

#### A Comparison of Operation Costs Factors: Union vs. Non-union HVAC and Sheet Metal Contractors

# New Horizons Foundation FMI Corporation











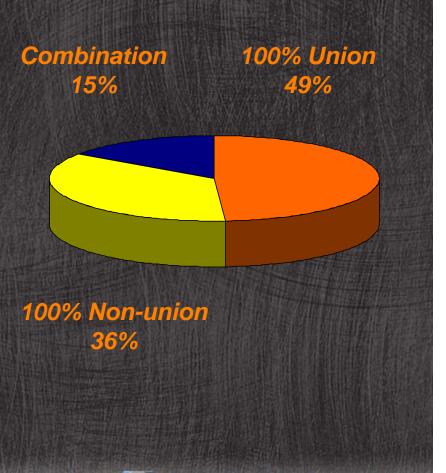
### **Study Participants**

 Interviewed selected union HVAC and sheet metal contractors

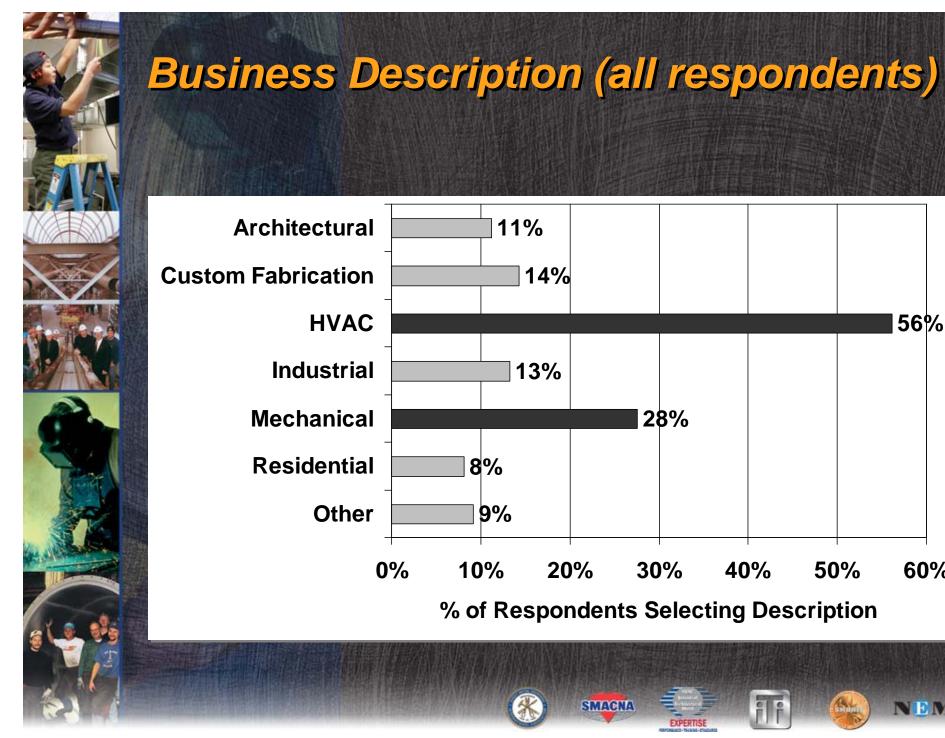
 Identified approximately 4,000 union and nonunion HVAC and sheet metal contractors nationwide

 98 survey participants (2.5% response rate)

Good representation of both union and nonunion firms



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#### **Architectural** 11% **Custom Fabrication** 14% **HVAC** 56% Industrial 13% **Mechanical** 28% Residential 8% Other 9% 0% 10% 20% 30% 40% 50% 60% % of Respondents Selecting Description

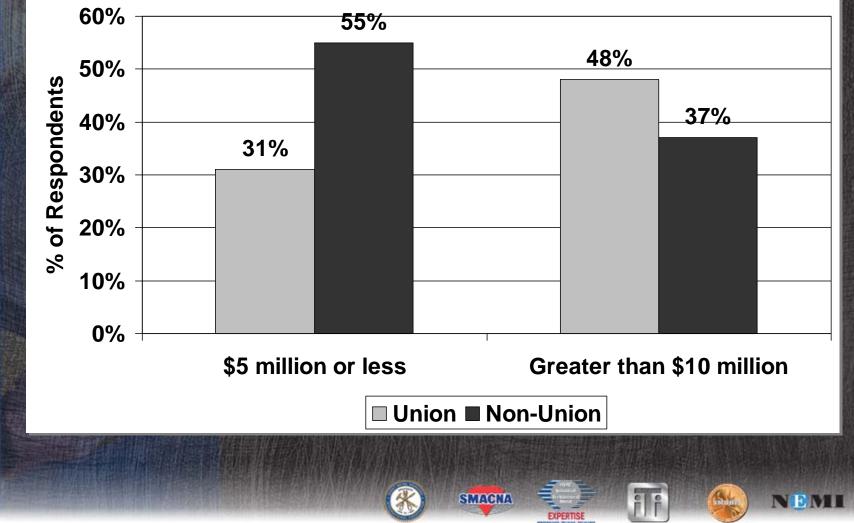






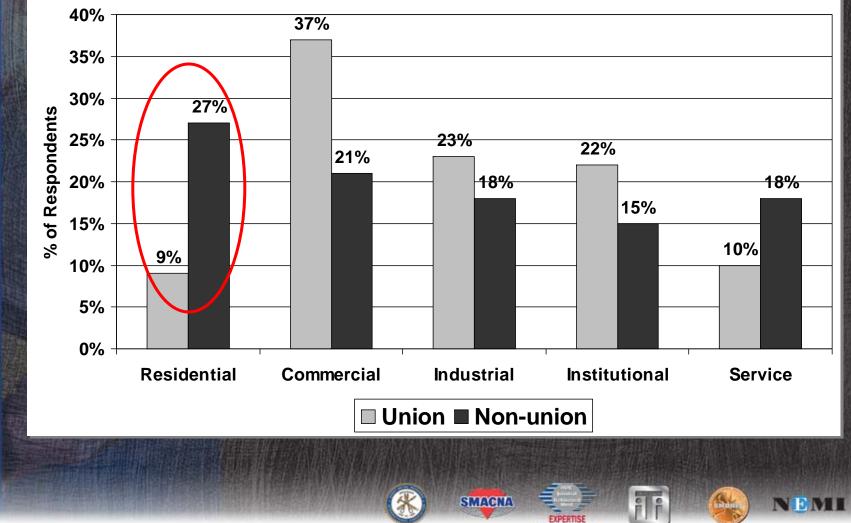


# **Annual Sales, Union vs. Non-union Respondents**





# Annual Sales by Market, Union vs. Nonunion Respondents





## **Key Findings**

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- Union contractors' productivity is higher
- Union contractors' field supervision cost is lower.
- 3. Employee retention is higher with union firms (less turnover).
- 4. Union contractors experience less expensive rework.
- 5. Union bid prices tend to run between 12%- 21% higher.
- 6. Union labor costs are higher, ranging from 22 percent (entry level) to 39% (journeyman level).
  - Crew mix differences are significant and work to the nonunion contractors' advantage from a labor cost perspective.
  - Survey respondents indicate that duct fabrication costs are about 20% higher for union firms.

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# **Union Bid Prices Tend to Run Between** 12%-21% Higher than Non-union

- Interviewees—Union bids are 10%- 20% higher than non-union
- Survey respondents—Union/non-union bid differential is 15%-20%

80% of all survey respondents perceive union bid prices to be

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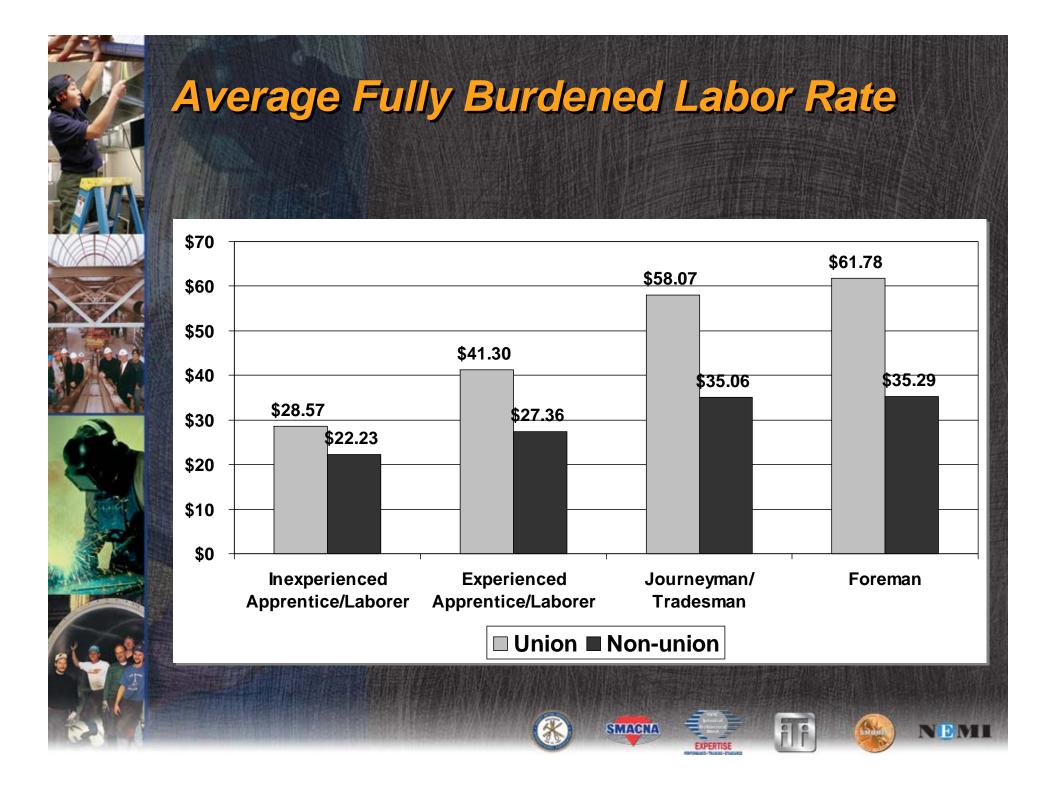
higher than non-union Similar pattern observed among other trades (Electrical Contracting Foundation example).

	Union is more expensive		Union is less expensive	
	% of Respondents	Price Differential	% of Respondents	Price Differential
<\$250K	80%	21%	20%	19%
\$250-\$500K	81%	18%	19%	16%
>\$500K	82%	15%	18%	16%











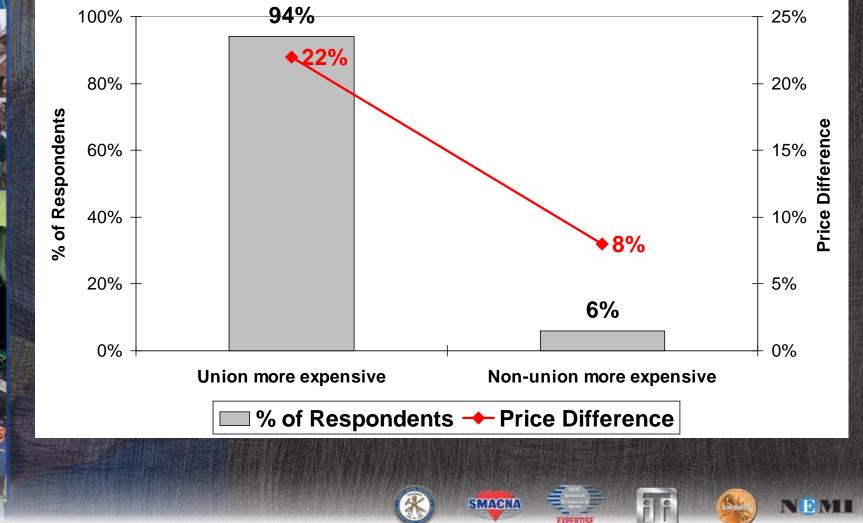
# **Perceived Fully Burdened Labor Rate Differential**

		% Reporting Union is More Expensive	Perceived Labor Rate Differential
Apprentice/ Laborer	Union	83%	31%
	Non-union	87%	26%
Journeyman / Tradesman	Union	81%	34%
	Non-union	86%	25%
Foreman	Union	70%	28%
	Non-union	83%	13%

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# Market Price Differential of Union vs. Non-union Fabricated Ductwork





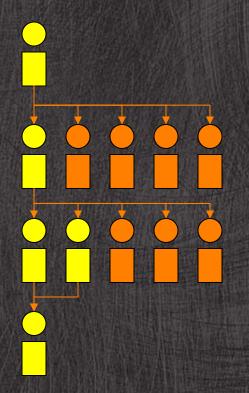
## **Crew Mix Ratio**

#### **Supervisors**

Foremen

Journeymen/ Tradesmen

Apprentices/ Laborers



Union

# **Non-union**

1 Apprentice – 2 Journeymen



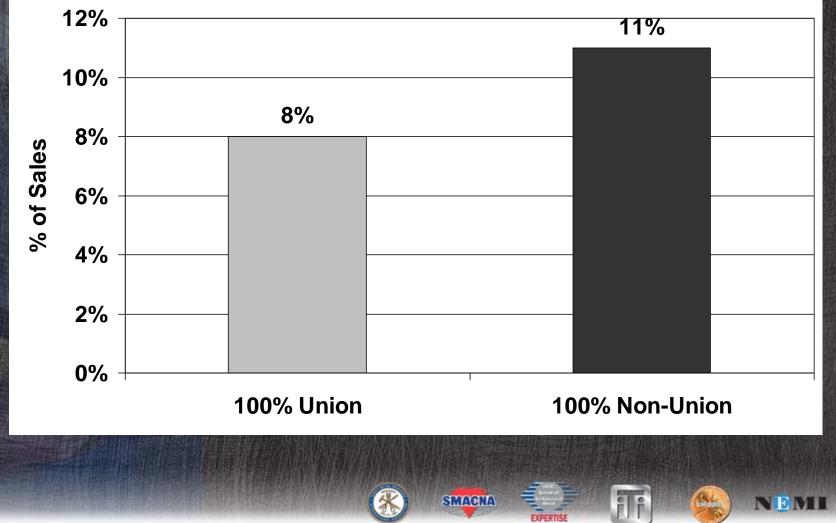
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3 Laborers – 1 Tradesmen



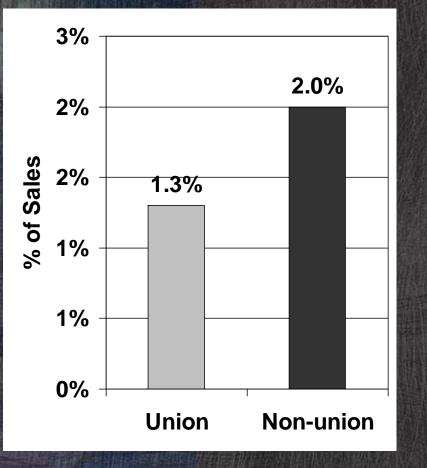


# **Cost of Field Supervision as a Percentage of Sales**





#### Training



Difficult to compare • Training Magazine's • 2005 Training Top 100, organizations nationwide allocating 3.7% of budgets to training • FMI's 2005-2006 U.S. **Construction Industry** Training Survey, 2.7% of payroll allocated to

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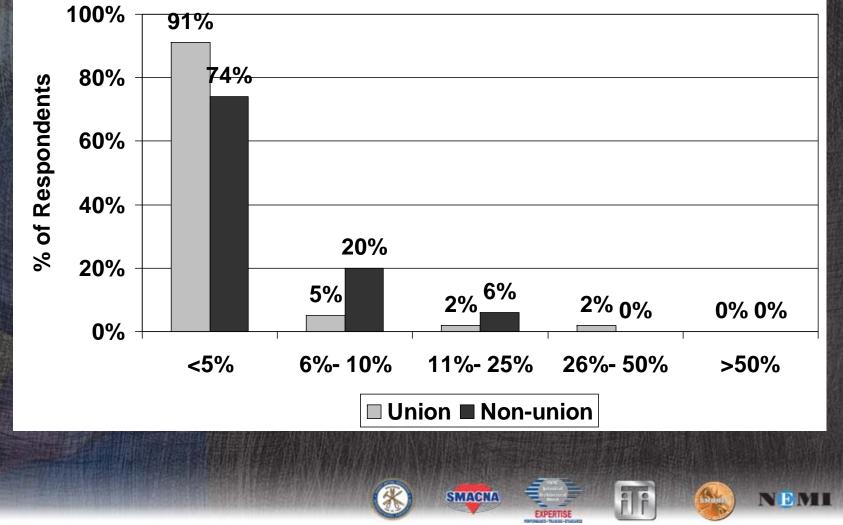
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training

Annual Turnover, Field/Shop Worker				
	Union	Non-union		
<5%	59%	26%		
5-10%	26%	26%		
11-25%	13%	26%		
26-50%	2%	20%		
>50%	0%	3%		



## **Percent of Jobs Experiencing Excessive Rework**





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## **Planning and Scheduling**

Union survey respondents devote minimal time to prejob planning and scheduling

Non-union survey respondents report significantly more time spent on these activities

Planning/ scheduling one of project managers' top concern

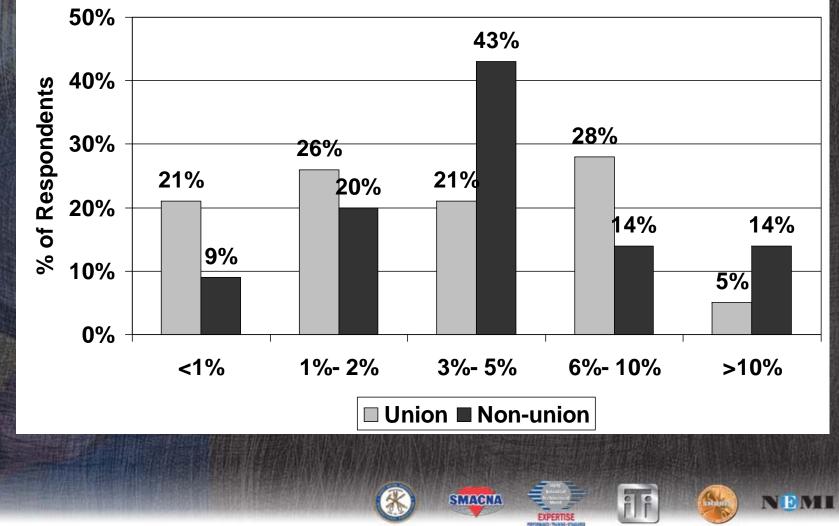
Union contractors spend minimal time conducting periodic schedule updates compared to non-union

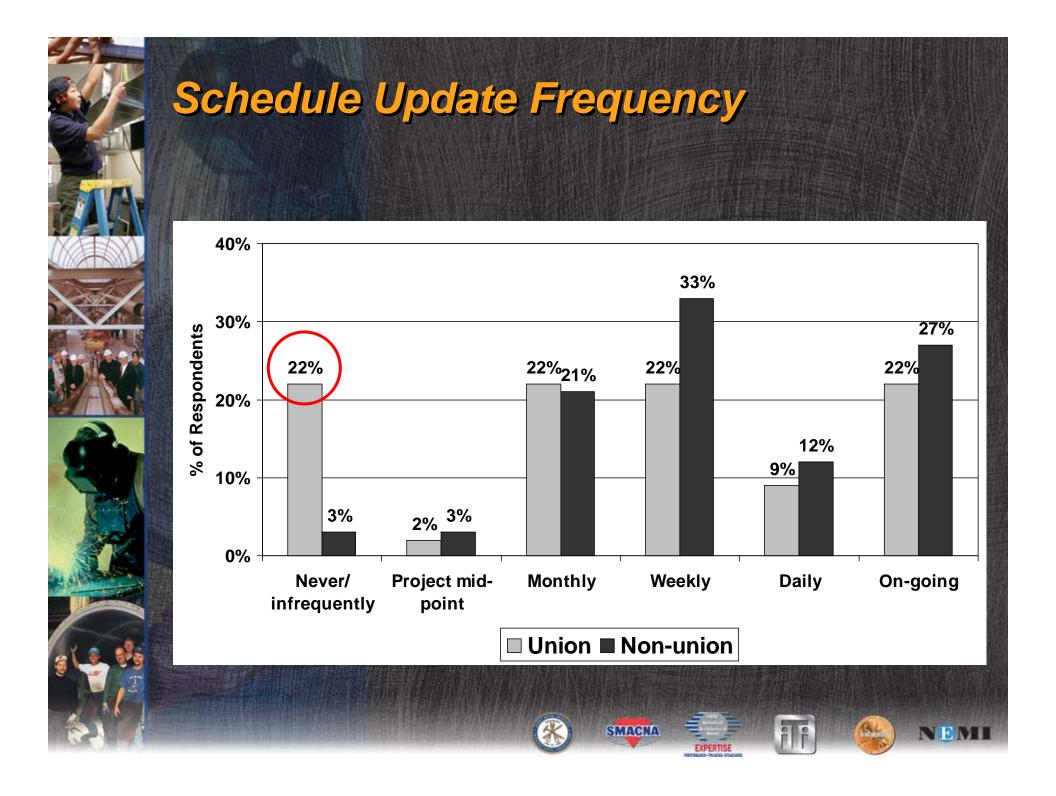
 Lack of pre-job planning and schedule management lead to profit fade, poor client satisfaction and threaten long-term sustainability.

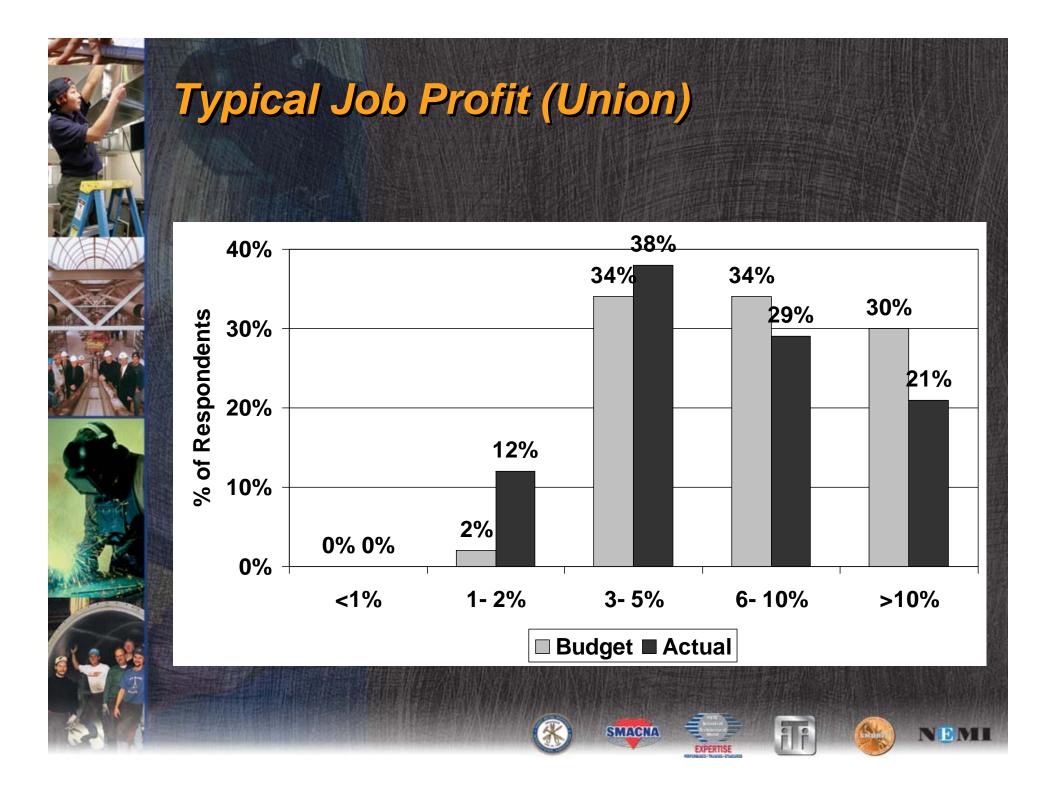


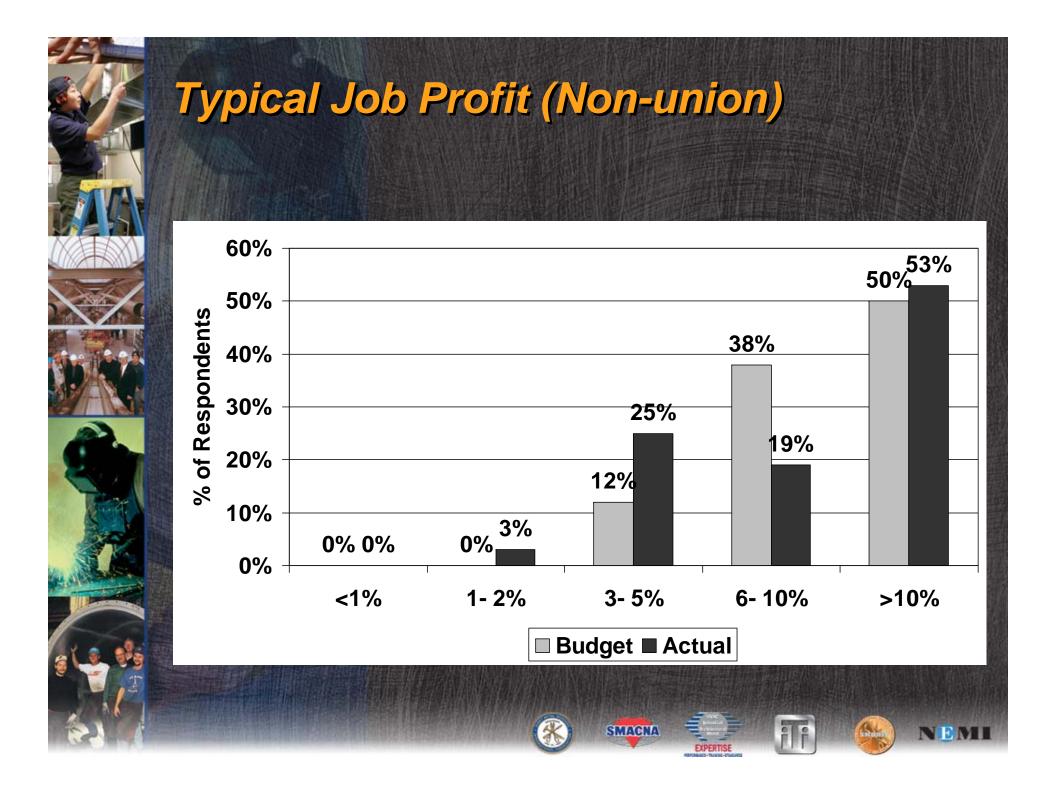


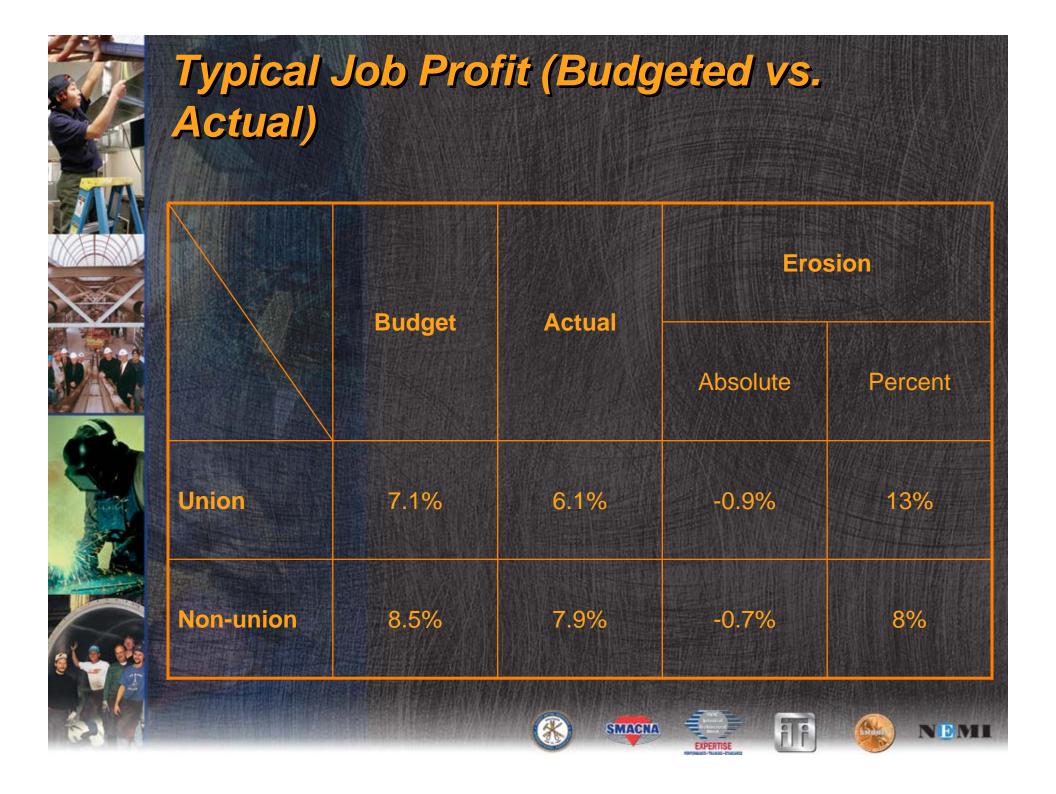
# **Pre-job Planning and Scheduling Time Spent vs. Total Project Duration**













#### **Common Concerns**

1. Insufficient labor availability and quality

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2. Elevated and rising materials prices

3. Adverse evolution of legal and regulatory conditions