

IRONWORKER MANAGEMENT PROGRESSIVE ACTION COOPERATIVE TRUST 1750 NEW YORK AVE. NW

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The goal of the IMPACT Webcast Series on Growing a Business is to provide our contractors with information, tools, and resources that they can use to grow and improve their business. We conduct one webcast every month, and each webcast covers a business topic relevant to the operations of an ironworker contractor. IMPACT provides recorded versions of our monthly Growing a Business webcasts. We also provide copies of the speakers' presentations.

March 2016 Episode 13

TITLE:
Getting Paid
INSTRUCTOR: Ken Roper, FMI



Any questions regarding this series please contact Dr. Cindy Menches at cmenches@impact-net.org



Quote: Running Out of Cash

"All sins are forgivable but one, running out of cash"

-famous CEO

Level 1: Establish Your Business



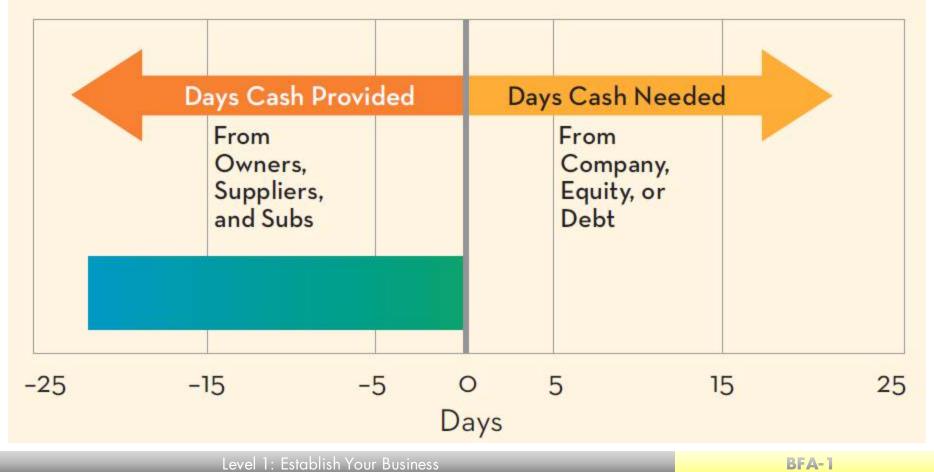
Liquidity Indicator

Contractor Revenue	\$22,120,246	RMA			
Assets	Account Balance	Days by Account	Top 1/4	Median	Lower 1/4
Accounts Receivable	\$1,727,898	29	59	76	93
Retainage Receivable	\$1,443,366	24	* *	* *	* *
Under-Billings	\$508,351	8	* *	* *	* *
Cash Conversion	\$3,679,615	61			
Liabilities	Account Balance	Days by Account	Тор ¼	Median	Lower 1/4
Accounts Payable	\$2,027,022	33	19	29	45
Accounts Payable Retainage	\$1,726,652	28	* *	* *	* *
Over-Billings	\$1,250,823	22	* *	* *	* *
Cash Funding	\$5,004,497	83			
Total Cash/Days (Provided/Needed)	-\$1,324,882	-22			
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Liquidity Indicator





Liquidity Indicator

- Defining project cash flow
- Impact on the company liquidity
- Establishing good habits and processes
- Providing incentives to maintain the discipline

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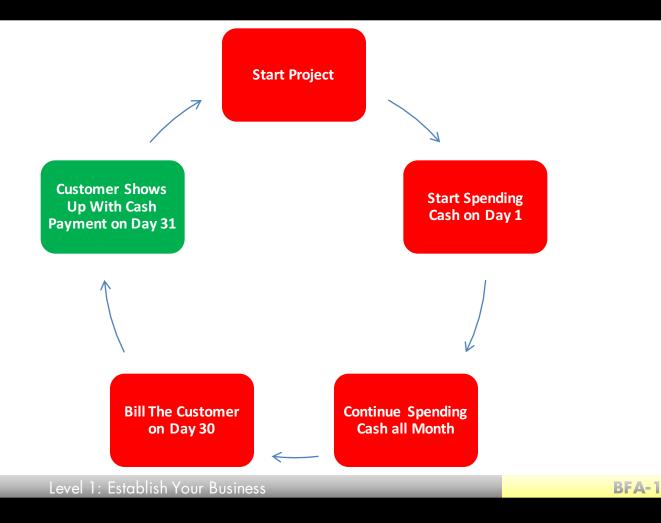


Liquidity Indicator (Days by Account; Cash Demand by Region)

Assets	Rocky Mountain Region	Southwest Region	San Diego Region	Southern California Region	Northern California Region
Accounts Receivable	55.9	75.5	58.5	60.0	65.1
Retainage Receivable	12.8	18.2	14.7	25.2	16.2
Under-Billings	0.9	7.8	7.7	8.3	3.7
Cash Conversion	69.6	101.6	80.9	93.4	85.0
Liabilities					
Accounts Payable	(22.3)	(19.3)	(20.3)	(18. <i>7</i>)	(27.0)
Accounts Payable Retainage	(2.1)	(1.6)	(1.8)	(2.7)	(8.1)
Over-Billings	(47.0)	(34.5)	(36.5)	(38.9)	(56.1)
Cash Funding	(71.4)	(55.4)	(58.6)	(60.3)	(91.2)
Total Cash/Days (Provided/Needed)	(1.8)	46.1	22.3	33.1	(6.2)
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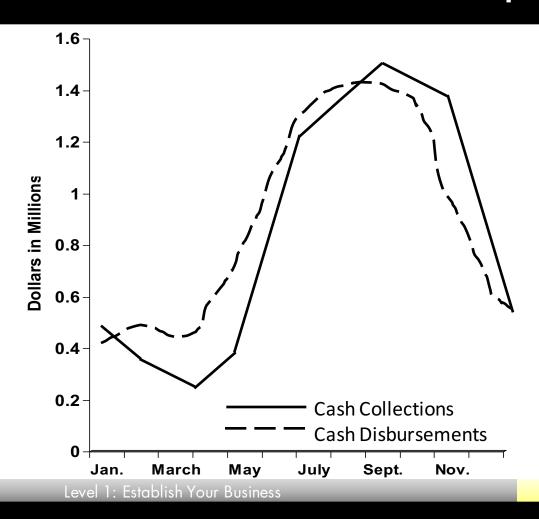


Project Cash Flow





The Cash Trap





Job Budget and Cash Flow Analysis

Direct	cos	ŀ
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costs	801,024
- ala	601,024
Other direct costs	<u>37,210</u>
Equipment	73,600
Labor	102,085
Subcontracts	290,029
Material	98,100

Total direct co Overhead

On material and subs	6.38%	24,763
On labor	25.32%	<u>25,848</u>
Unadjusted overhead		50,611
"M" factor	0.9087	

Total overhead

		663.604
Operating profit at	2.50%	<u> 16,590</u>
Break even		647,014

Total price

% Complete Cumulative % % Remaining

Retainage 10.00%

Opportunity Cos

Cost			12.00%		
Month	Month	Month	Month	Month	Month
1	2	3	4	5	<u>6</u>
3%	15%	25%	30%	15%	12%
3%	18%	43%	73%	88%	100%
97%	82%	57%	27%	12%	0%

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45,990



Budget and Cash Flow Alternatives

(30-Day Terms)

	Month	Month	Month	Month	Month	Month	Month	Month	Month
	1	2	3	4	5	6	7	8	9
Gross Billing	19,908	99,541	165,901	199,081	99,541	79,632			
Retainage Held	1,991	9,954	16,590	19,908	9,954	7,963			
Retainage Billed						66,360			
Net Billing	<u>17,917</u>	89,587	149,311	179,173	89,587	138,030			
Receipts:									
30-Day Terms		17,917	89,587	149,311	179,173	89,587	138,030		
Disbursements:									
Material (30)		2,943	14,715	24,525	29,430	14,715	11,772		
Subcontracts (30)		8,701	43,504	72,507	87,009	43,504	34,803		
Labor (0)	3,063	15,313	25,521	30,626	15,313	12,250			
Equipment (30)		2,208	11,040	18,400	22,080	11,040	8,832		
Other (30)		1,116	5,582	9,303	11,163	5,582	4,465		
Overhead (0)	7,665	7,665	<u>7,665</u>	7,665	7,665	7,665			
Total	10,728	<u>37,946</u>	108,027	163,025	172,659	94,756	<u>59,873</u>		
30-Day Terms Cash Flow									
Net	(10,728)	(20,029)	(18,441)	(13,714)	6,541	(5,169)	78,157		
Cumulative	(10,728)	(30,756)	(49,197)	(62,911)	(56,397)	(61,567)	16,590		

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Budget and Cash Flow Alternatives

(60-Day Terms)

	Month	Month	Month	Month	Month	Month	Month	Month	Month
	1	2	3	4	5	6	7	8	9
Gross Billing	19,908	99,541	165,901	199,081	99,541	79,632			
Retainage Held	1,991	9,954	16,590	19,908	9,954	7,963			
Retainage Billed						66,360			
Net Billing	<u>17,917</u>	<u>89,587</u>	<u>149,311</u>	<u>179,173</u>	<u>89,587</u>	<u>138,030</u>			
Receipts:									
60-Day Terms			17,917	89,587	149,311	179,173	89,578	138,030	
Disbursements:									
Material (30)		2,943	14,715	24,525	29,430	14,715	11,772		
Subcontracts (30)		8,701	43,504	72,507	87,009	43,504	34,803		
Labor (0)	3,063	15,313	25,521	30,626	15,313	12,250			
Equipment (30)		2,208	11,040	18,400	22,080	11,040	8,832		
Other (30)		1,116	5,582	9,303	11,163	5,582	4,465		
Overhead (0)	7,665	7,665	7,665	7,665	7,665	7,665			
Total	10,728	37,946	108,027	163,025	172,659	94,756	59,873		
60-Day Terms Cash Flow					-	<u> </u>			
Net	(10,728)	(37,946)	(90,110)	(73,439)	(23,349)	84,417	29,714	138,030	
Cumulative	(10,728)	(48,673)	(138,783)	(212,222)	(235,570)	(151,153)	(121,440)	16,590	

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Budget and Cash Flow Alternatives

(90-Day Terms)

	Month	Month	Month	Month	Month	Month	Month	Month	Month
	1	2	3	4	5	6	7	8	9
Gross Billing	19,908	99,541	165,901	199,081	99,541	79,632			
Retainage Held	1,991	9,954	16,590	19,908	9,954	7,963			
Retainage Billed						66,360			
Net Billing	<u>17,917</u>	<u>89,587</u>	<u>149,311</u>	<u>179,173</u>	<u>89,587</u>	<u>138,030</u>			
Receipts:									
90-Day Terms				17,917	89,587	149,311	179,173	89,578	138,030
Disbursements:									
Material (30)		2,943	14,715	24,525	29,430	14,715	11,772		
Subcontracts (30)		8,701	43,504	72,507	87,009	43,504	34,803		
Labor (0)	3,063	15,313	25,521	30,626	15,313	12,250			
Equipment (30)		2,208	11,040	18,400	22,080	11,040	8,832		
Other (30)		1,116	5,582	9,303	11,163	5,582	4,465		
Overhead (0)	<u>7,665</u>	7,665	<u>7,665</u>	<u>7,665</u>	<u>7,665</u>	<u>7,665</u>			
Total	<u>10,728</u>	<u>37,946</u>	<u>108,027</u>	<u>163,025</u>	<u>172,659</u>	<u>94,756</u>	<u>59,873</u>		
30-Day Terms Cash Flow								·	
Net	(10,728)	(37,946)	(108,027)	(145,108)	(83,073)	54,555	119,300	89,587	138,030
Cumulative	(10,728)	(48,673)	(156,700)	(301,808)	(384,881)	(330,326)	(211,026)	(121,440)	16,590

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Company Cost of Capital is 12% Annualized Rate

	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
Cost to finance on 30-day terms Monthly cost of money Cumulative	(107) (107)	(308) (415)	(492) (907)	(629) (1,536)	(564) (2,100)	(616) (2,716)		
Cost to finance on 60-day terms Monthly cost of money Cumulative	(107) (107)	(487) (594)	(1,388) (1,982)	(2,122) (4,104)	(2,356) (6,460)	(1,512) (7,971)	(1,214) (9,186)	
Cost to finance on 90-day terms Monthly cost of money Cumulative	(107) (107)	(487) (594)	(1,567) (2,161)	(3,018) (5,179)	(3,849) (9,028)	(3,303) (12,331)	(2,110) (14,441)	(1,214) (15,656)

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Pricing and Payment Terms Alternative Summary

	30-Day <u>Terms</u>	60-Day <u>Terms</u>	90-Day <u>Terms</u>	
Desired operating profit	16,5 90	16,590	16,590	
1 01	ŕ	,	,	
Total cost of money	(2,716)	(9,186)	(15,656)	
Effective operating profit	13,875	7,404	934	
Needed operating profit	19,306	25,776	32,246	
Needed operating profit margin	2.90%	3.83%	4.75%	
Needed sale price	666,319	672,790	679,260	
Needed gross profit margin	9.80%	10.67%	11.52%	
Needed direct cost markup	10.86%	11.94%	13.02%	
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Schedule of Values – Project Cash Flow

	Month	Month	Month	Month	Month	Month	Month	Month	Month
	1	2	3	4	5	6	7	8	Totals
Gross Billing	19,908	99,541	165,901	199,081	99,541	79,632	-		
Retainage Held	1,991	9,954	16,590	19,908	9,954	7,963	-		
Retainage Billed							66,360		
Net Billing	17,917	89,587	149,311	<u>179,173</u>	89,587	71,669	66,360		
Receipts:									
30-Day Terms		17,917	89,587	149,311	179,173	89,587	71,669	66,360	\$ 663,604
Disbursements:									
Material (30)			2,943	14,715	24,525	29,430	14,715	11,772	
Subcontracts (30)			8,701	43,504	72,507	87,009	43,504	34,803	
Labor (0)		3,063	15,313	25,521	30,626	15,313	12,250		
Equipment (30)			2,208	11,040	18,400	22,080	11,040	8,832	
Other (30)			1,116	5,582	9,303	11,163	5,582	4,465	
Overhead (0)		7,665	7,665	7,665	7,665	7,665	7,665		
Total		10,728	37,946	108,027	163,026	172,660	94,756	59,872	\$ 647,015
30-Day Terms Cash Flow									
Net		7,189	51,641	41,284	16,147	(83,073)	(23,087)	6,488	\$ 16,589
Cumulative	-	7,189	58,830	100,114	116,261	33,188	10,101	16,589	

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Use Aggressive Cash Management Strategies

- Objective
 - Identify the steps to aggressive cash management
- Timeline
 - One month to design education and training regimen
 - Six months to implement and observe measurable improvement
- Results Expected
 - Reduction in borrowing amounts and interest expense
 - Increase in accounts receivable collection speed
 - Improvement in profitability

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Steps in Cash Management Strategies

- Homework before bidding or negotiation
- Preconstruction prompt payment setup
- Eliminate underbillings
- Ensure prompt payment
- Last Resort: Collection

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Do Your Homework (1 of 3)

- Know the buyer and the players
- Investigate credit history
- Know the source of the funds
- Understand contract terms and conditions
- Evaluate credit risk
- Develop job cash flow (See Workshop 4 & 5 for example)

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Do Your Homework (2 of 3) Sources of Credit Information

- National Association of Credit Managers
 - http://www.nacm.org/
- Financial Statements
- Project Funding Agreement
- Clerk of the Court
 - http://www.govresources.com/landingpages/ court_record_search.html
 - http://www.govcourtsrecords. com/

- Dun & Bradstreet
 - http://www.dnb.com/us/
- Credit Bureau
 - http://www.experian.com/bu siness_services/
- Banks
- Suppliers
- Other Contractors
- Other Customers

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Do Your Homework (3 of 3) Credit Risk Evaluation

- Establish a limit
- Monitor performance
- Revise ratings and limits regularly
- Reevaluate all creditors annually

- Define the risk groups
- Use credit applications when appropriate
- Investigate credit history
- Appraise your risk

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Preconstruction Prompt Payment Setup

- Reconfirm financial arrangements and source of funds
- Be familiar with documentation and substantiation required
- Chart the owner's receipt and approval process
- Meet the players
- Determine the type of requisition required

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Eliminate Underbillings (1 of 2)

- Bill aggressively upon completion of project milestones
- Review each job that contributes significantly to the balance of underbillings:
 - Review each phase against the schedule of values to determine why billings are not keeping up with costs
- Get change orders processed and paid!

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RFΔ-1



Eliminate Underbillings (2 of 2)

- Unbalance the bid to get costs billed before they are incurred
- Areas such as mobilization typically do not have enough money in area of the budget
 - So ... load the job with mobilization
- Measure indicating an excessive balance is when Underbillings exceed ten days of sales

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Ensure Prompt Payment

- Bill all work on time!
- Ensure accuracy
- Establish most expeditious method for receiving check
- Obtain authorized approval prior to billing
- Get the first check on time!

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Last Resort: Collecting Receivables

- Create and communicate formal collection system
- Assign individual responsibility
- Review aged accounts receivable weekly
- Develop collection priorities
- Obtain a commitment to pay
- Know your legal remedies and recourse

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Best Practices for Accounts Receivable – Does Your Company Have ... (1 of 2)

A well-documented credit and collection policy that is understood by all employees and customers?	Yes	No 🗆
An established procedure to determine a customer's credit limit?	Yes 🗆	No 🗆
Its own terms of sale?	Yes 🗆	No 🗆
An individual that regularly reviews the credit status of existing customers?	Yes □	No 🗆
A system for immediate identification of non-payment?	Yes 🗆	No 🗆

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Best Practices for Accounts Receivable – Does Your Company Have ... (2 of 2)

Monthly or weekly aged accounts receivable reports?	Yes □	No □
Weekly status report and follow-up action list on all overdue accounts?	Yes □	No □
An individual assigned to collect each account?	Yes □	No □
Specific plans for legal action where required to collect accounts?	Yes □	No □
Former customers for whom you refuse to do Yes \square work because of poor payment experience?	No □	

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Summary of Financial Management for Construction Managers

- Construction Industry Reporting
- Project Management and Control
- Cash Flow Enhancement
- Risk Mitigation
- Increasing Organizational Value

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Presenter



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Building successful construction organizations is Ken's passion. Ken, a Principal with FMI, has been implementing profitable growth strategies with construction companies across the country for the past 35 years. His competitive drive, industry experience and unique background blend strategy development, financial mastery and organizational efficiency into establishing market leadership for contractors.

Clients experience growth in profitability and value working with Ken. His personable style and in-depth understanding of his clients and the construction industry have enabled him to sustain long-term client relationships. Ken currently serves as a Director and Board Member for several of his clients.

His extensive industry knowledge, engaging sense of humor and creative approach to presentations make him a highly sought after speaker. He has spoken at Trade Associations, Industry Conferences, Corporate Annual Meetings and Software Conventions. Clients retain Ken to provide numerous in-house training courses on strategy development, customer satisfaction, productivity improvement, financial management and organization development.

Ken holds a bachelor's degree in accounting from Michigan State University. Prior to joining FMI, Ken worked for a National Public Accounting firm in New York City before returning to Colorado to build an accounting firm specializing in the construction industry.

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About FMI

FMI is a leading provider of management consulting, investment banking[†] and research to the engineering and construction industry. We work in all segments of the industry providing clients with value-added business solutions, including:

- Strategic Advisory
- Market Research and Business Development
- Leadership and Talent Development
- Project and Process Improvement
- Mergers, Acquisitions and Financial Consulting[†]
- Compensation Benchmarking and Consulting
- Risk Management Consulting

Founded by Dr. Emol A. Fails in 1953, FMI has professionals in offices across the U.S. We deliver innovative, customized solutions to contractors, construction materials producers, manufacturers and suppliers of building materials and equipment, owners and developers, engineers and architects, utilities and construction industry trade associations. FMI is an advisor you can count on to build and maintain a successful business, from your leadership to your site managers.

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