### **Business Cash Flow Essentials**

Mike Milan – "Cash Flow Mike"

Consultant / Trainer





## Lesson 3 Part A

Ratio & Financial Analysis



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Ratio & Financial Analysis

- 1. Test a company by calculating key liquidity, safety, leverage, and efficiency ratios.
- 2. Analyze the results and learn to interpret what the ratios financial impact means in your business.
- 3. Diagnose the causes for any financial or management problems that results are pointing to.
- 4. Build solutions to improve your company's health based on what you find.
- 5. Build a financial dashboard you can use in your company with CashFlowTool.

#### 60-year old Paint Manufacturing Company

## Spectrum Manufacturing



### Need a Line of Credit







#### Balance Sheet

#### SPECTRUM MANUFACTURING COMPANY Balance Sheet (000's)

	Year x1	Year x2	Year x3	Year x4	Year x5
1 ASSETS					
2 Cash	\$102	\$76	\$69	\$33	\$85
3 Accounts Receivable	669	688	661	756	654
4 Inventory	1,116	1,109	1,250	1,059	1,217
5 Prepaid Expenses	105	97	99	88	93
6 Total Current Assets	\$1,992	\$1,970	\$2,079	\$1,936	\$2,049
7 Land & Building	1,085	1,540	1,560	1,600	1,600
8 Vehicles	104	129	138	165	165
9 Equipment	576	866	883	900	920
10 Furniture & Fixtures	89	118	129	176	186
11 Gross Fixed Assets	\$1,854	\$2,653	\$2,710	\$2,841	\$2,871
12 Less Accumulated Dep.	(682)	(828)	(978)	(1,154)	(1,337)
13 Net Fixed Assets	\$1,172	\$1,825	\$1,732	\$1,687	\$1,534
14 TOTAL ASSETS	\$3,164	\$3,795	\$3,811	\$3,623	\$3,583
15 LIABILITIES & EQUITY					
16 Notes Payable - Bank	\$211	\$656	\$599	\$619	\$589
17 Accounts Payable	558	630	691	764	750
18 Accrued Expenses	203	188	191	170	180
19 Total Current Liabilities	\$972	\$1,474	\$1,481	\$1,553	\$1,519
		. ,		. ,	. ,
20 Long-Term Debt	814	903	876	614	599
20 Long-Term Debt					
04 TOTAL LIABILITIES		***			
21 TOTAL LIABILITIES	\$1,786	\$2,377	\$2,357	\$2,167	\$2,118
22 Common Stock	250	250	250	250	250
23 Retained Earnings	1,128	1,168	1,204	1,206	1,215
24 EQUITY	\$1,378	\$1,418	\$1,454	\$1,456	\$1,465
				-	
25 TOTAL LIABILITIES & EQUITY	\$3,164	\$3,795	\$3,811	\$3,623	\$3,583

#### Income Statement

#### SPECTRUM MANUFACTURING COMPANY Income Statement (000's)

		Year x1	Year x2	Year x3	Year x4	Year x5
-	SALES	\$8,100	\$7,500	\$7,600	\$6,800	\$7,100
_	Cost of Goods Sold	(5,468)	(5,070)	(5,252)	(4,658)	(4,920)
3	GROSS PROFIT	\$2,632	\$2,430	\$2,348	\$2,142	\$2,180
4	OPERATING EXPENSES					
5	Owners Salary	\$90	\$70	\$50	\$50	\$50
6	Other Salaries	778	673	620	515	508
7	Commissions	405	375	380	340	350
8	Salary Related Expense	316	298	262	226	220
9	Advertising	83	75	72	70	67
10	Bad Debts	22	16	19	11	18
11	Business Taxes & Licenses	80	76	77	69	73
12	Depreciation	105	146	150	176	183
13	Insurance	95	94	96	102	105
14	Legal & Accounting	21	23	22	26	24
15	Maintenance & Repair	59	51	60	63	65
16	Office Expense	25	23	24	22	23
17	Telephone & Utilities	129	135	143	149	158
18	Travel & Entertainment	54	40	41	49	52
19	Vehicle Expense	47	49	52	61	64
20	Other Admin Expenses	81	77	83	79	80
21	TOTAL OPERATING EXPENSES	\$2,390	\$2,221	\$2,151	\$2,008	\$2,040
22	OPERATING PROFIT	\$242	\$209	\$197	\$134	\$140
23	Interest Expense	(116)	(162)	(155)	(131)	(129)
24	PROFIT BEFORE TAX	\$126	\$47	\$42	\$3	\$11
25	Income Tax	(32)	(7)	(6)	(1)	(2)
26	PROFIT AFTER TAX	\$94	\$40	\$36	\$2	\$9





### 1 Trends

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Year x2

Year x3

Year x4

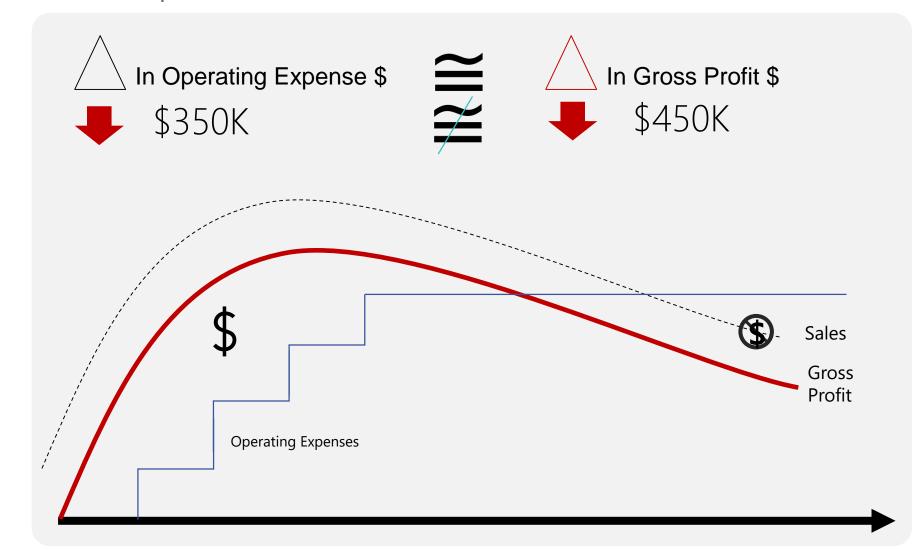
Year x5

Year x1



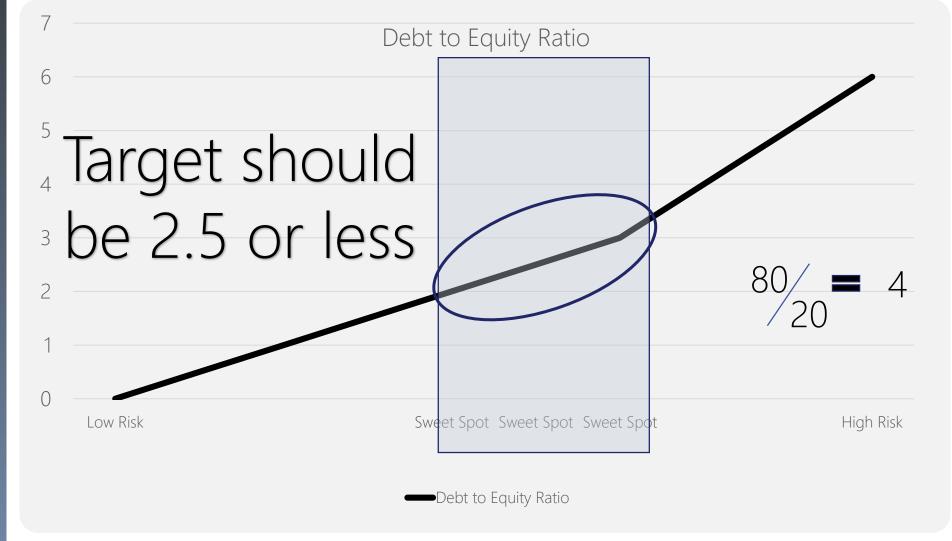


2 Expense Control





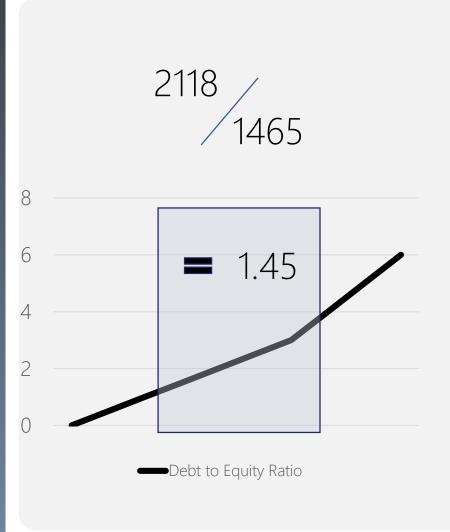
### 3 Debt to Equity







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25 TOTAL LIABILITIES & EQUIT	TY \$3,164	\$3,795	\$3,811	\$3,623	\$0,500





### 4 EBITDA

Earnings (Net Profit After Tax)	\$9
Before	+
Interest Paid	\$129
Taxes paid	\$2
Depreciation Paid	\$183
Amortization Paid	\$0
	\$323

EBITDA = \$323LTD Capacity \$969 LTD on B/S New LTD Capacity \$370





SOLVENCY RATIOS	S Formula	Calculations		Company	Industry (Target)
1. Current	Current Assets Current Liabilities	<u>2049</u> 1519	=	1.35	1.9
2. Quick	Cash + Accts Receivable Current Liabilities	739 1519	=	0.49	1.1
SAFETY RATIO					
3. Debt to Equity	Total Liabilities Equity	2118 1465	=	1.45	1.3





PROFITABILITY RATIOS	Formula	Calculations	Company	Industry (Target)
4. Gross Profit Margin	Gross Profit Sales	<u>2180</u> 7100 =	30.7 %	32.2 %
5. Net Profit Margin	Net Profit Before Tax Sales	<u>11</u> 7100 =	0.15 %	3.1 %
6. Return on Assets (ROA)	Net Profit Before Tax  Total Assets	<u>11</u> 3592 =	0.31 %	8.1 %
7. Return on Investment (ROI)	Net Profit Before Tax Equity	<u>11</u> 1465 =	0.75 %	16.4 <u>%</u>





				Industry
ASSET MANAGEMENT RATIOS	Formula	Calculations	Company	(Target)
8. Sales to Assets	Sales	7100		
	Total Assets	3592	1.98	2.3
9. Inventory Turnover (x)	Cost of Goods Sold	4920	4.04	<b>.</b> .
	Inventory	1217	$= \frac{4.04 \times x}{x}$	5.5 χ
10. Inventory (Days)	365 days	365 Days	_ 90 _	66 _
	Inventory Turnover	4.04 🖍 📑	= Days	Days Days





				Industry
ASSET MANAGEMENT RATIOS	Formula	Calculations	Company	(Target)
11. A/R Turnover (x)	Sales Accounts Receivable	<u>7100</u>   654 =	10.8 x	8.3 <u>x</u>
12. Collection Period (Days)	365 Days A/R Turnover	365 Days 10.8 =	34 <sub>Days</sub>	44 Days
13. A/P Turnover (x)	Cost of Goods Sold Accounts Payable	<u>4920</u> 750 =	6.56 x	10.8 <sub>X</sub>
14. A/P (days)	365 days Accounts Payable Turnover	$\frac{365 \text{ pays}}{6.56} =$	56 <sub>Days</sub>	34 <sub>Days</sub>

