ANKLESARIA GROUP

Strategic Cost Management Improving Supply Chain Competitiveness and Profitability

STRATEGIC COST MANAGEMENT

Improving Supply Chain Competitiveness & Profitability

Presented by

Anklesaria Group, Inc. 1172 Cuchara Drive Del Mar, California 92014 Telephone: (858) 755-7119

Fax: (858) 755-2139 E-mail: <u>info@anklesaria.com</u> Website: www.anklesaria.com

Copyright © 2023, Anklesaria Group, Inc. Del Mar, California

Version 0218

Part of this program is based on the book Zero Base Pricing™: Achieving World Class Competitiveness Through Reduced All-in-Cost

by

David N. Burt, Warren Norquist and Jimmy Anklesaria Byline Publishing

Zero Base Pricing™ is trademarked by the Polaroid Corporation.

AIM & DRIVE® is a registered servicemark by Jimmy Anklesaria

The material included in this Program Manual is copyrighted and may not be reproduced in whole or part without the express written permission of Anklesaria Group, Inc., 1172 Cuchara Drive, Del Mar, California 92014.

Copyright © 2023, Anklesaria Group, Inc., Del Mar, California

All rights reserved

STRATEGIC COST MANAGEMENT

TABLE OF CONTENTS	Page #
Seminar Agenda and Objectives	5
Strategic Cost Management: The Concept	8
AIM&DRIVE®: Collaborative Cost Management	12
Price Analysis	21
Should Cost Models	29
Process Based Cost Models	36
Price Discipline ™ Models	41
Total Cost of Ownership Models	48
Implementing SCM	57
Course Evaluation	64
Appendix A- List of data sources	67

Strategic Cost Management:

Seminar Agenda and Objectives

Total Cost Solutions 3.0



Anklesaria Group, Inc.
Del Mar, CA

© Copyright 2023 Anklesaria Group, Inc.

AGENDA

1 Introduction

2 The Anklesaria Cost Management Toolkit Case: Analyzing Cost Breakdowns

3 AIM&DRIVE®- Collaborative Cost Management

4 Price Analysis

5 Basic Cost Models & Industry Cost Profiles Case: Basic Should Cost Model

6 Process-based Should Cost Models Case: Process-based Should Cost Model

ANKLESARIA

Copyright © 2023

Duplication prohibited without written consent

AGENDA





SEMINAR INTRODUCTION & OVERVIEW



Strategic Cost Management:

The Concept

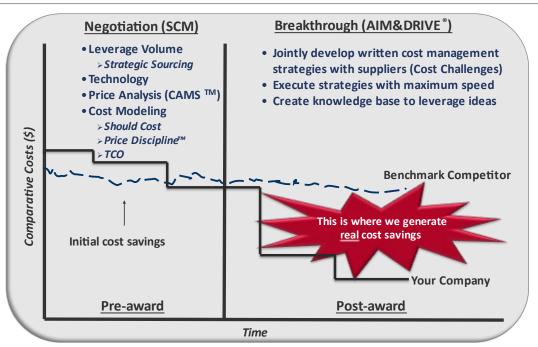
The Anklesaria Cost Management Toolkit



Copyright © 2023 Duplication prohibited without written consent

Total Cost Solutions 3.0: The Concept

Selecting your strategy



Anklesaria GROUP

Where does cost management fit in the strategic sourcing process?

Strategy	Source	Manage
> Assess Internal Needs	> Prepare for Sourcing Event	➤ Initiate Contract Management
Analyze Supply Market Supply Market Overview Profile Suppliers Evaluate Trends and Forces	➤ Conduct Sourcing Event➤ Select Supplier(s) Award Contracts	> Manage Contract Supplier Performance (KPIs) Contract Pricing (Price Disciplinte) Value Improvement Program (AIM & DRIVE)
➤ Understand Costs TotalCost of Ownership Should Cost Model Price DiscipliñeModels AIM & DRIVĒ	Negotiate and Award Contract	➤ Close Contract
> Develop Strategy		

Anklesaria GROUP

Copyright © 2023 Duplication prohibited without written consent

Anklesaria Cost Management Toolkit

Case Study

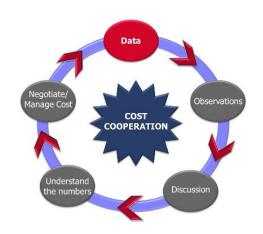
Analyzing Cost Breakdowns



Case Study – Key Takeaways

- Prepare the Supplier

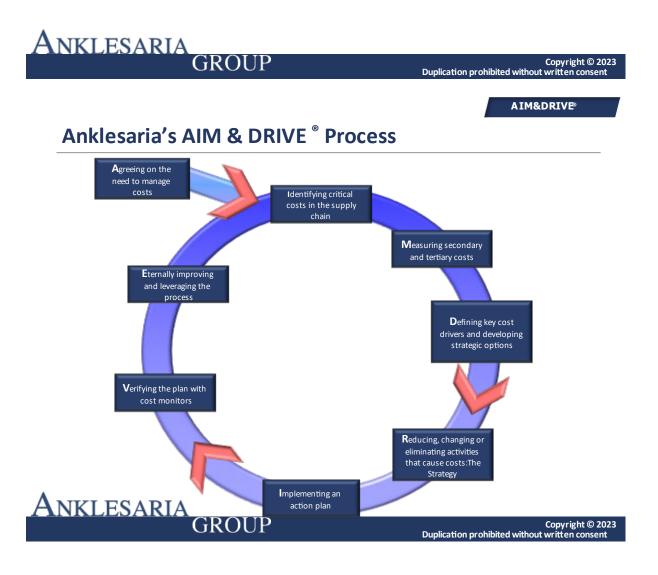
 Be an <u>Educator</u> and not an Auditor
- Only request <u>relevant data</u> and provide constructive feedback
- Sign a <u>non-disclosure</u> agreement if necessary
- Communicate that cost knowledge is the <u>foundation</u> for building a cost management strategy
- Knowledge is Power
 - Price analysis to determine market <u>trends</u> for the critical costs
 - Cost analysis to validate the <u>absolute</u> value of a supplier's proposal
 - AIM&DRIVE * process to drive breakthrough solutions and generate savings/value beyond negotiations





GROUP

AIM&DRIVE®- Collaborative Cost Management



STRATEGY DEFINED

The River (Sun Tzu)

- ◆ Clear Goal
- One Direction
- ◆ Converge with Business Strategy
- Removing and overcoming obstacles (long-term vs. short-term)
- ◆ Harnessing the inherent power



Anklesaria

GROUP

Copyright © 2023 Duplication prohibited without written consent

AIM & DRIVE®

AIM&DRIVE

AGREEING TO MANAGE COSTS

Select a Primary Cost (The Topic)

- ◆ Pareto Analysis
- ◆ Significant competitive gap
- Variation from established standard that causes profitability to be jeopardized
- ◆ Spend exceeds a "hurdle" amount
- ◆ Topic can be leveraged



Anklesaria GROUP

AGREEING TO MANAGE COSTS

Understand and respect different perspectives

- Marketing Time to market
- Manufacturing Throughput
- ◆ R & D Design cycle time
- ◆ Finance Payment terms
- ◆ Logistics Speed
- ◆ Procurement Purchase price



"The blind men and the elephant"

Every one is partly right and yet all

are wrong

ANKLESARIA

GROUP

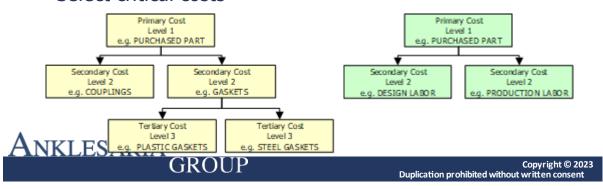
Copyright © 2023
Duplication prohibited without written consent

AIM & DRIVE®

AIM&DRIVE

IDENTIFYING CRITICAL COSTS

- ✓ Map the process to understand activities
- ✓ Break down the Primary Cost (Level 1) into lower level (secondary and tertiary) costs
- ✓ Assign values if possible
- √ Focus on future cash flows (recurring or non-recurring)
- ✓ Determine if impactable or non-impactable
- ✓ Select critical costs



FORMULA BASED COSTING™

- □ Premise: A mathematical equation, LHS = RHS
- ☐ The LHS (result) is the *cost element*
- ☐ The RHS (variables) are the *cost drivers*
- Cost Drivers vary within a range (min/max)
- Strategic Options are <u>functions</u> that determine the current value of a driver within the range

ANKLESARIA

GROUP

Copyright © 2023

Ouplication prohibited without written consent

AIM & DRIVE®

AIM&DRIVE

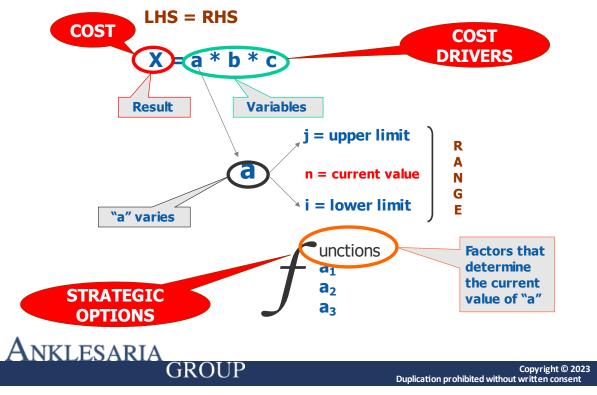
FORMULA BASED COSTING™: POINTS TO REMEMBER

- ◆ The logical end of a formula is the <u>Revenue Driver</u>
- ◆ There is only **ONE** Revenue Driver in a supply chain
- ◆ A plus sign in a formula indicates Cost Elements NOT Cost Drivers
- ◆ A <u>Cost Element</u> is a physical expense that can be expressed as "\$ per year"
- ◆ A <u>Cost Driver</u> must be a numerically expressible variable
- ◆ A <u>"qualitative"</u> factor will always be a "function/strategic option"

Anklesaria

GROUP

FORMULA BASED COSTING™: THE LOGIC



AIM & DRIVE®

AIM&DRIVE

DEFINING KEY COST DRIVERS

- Select by discussion
- Use a decision matrix
 - > Assign weights (relative percentages) to cost elements
 - > Evaluate the impact of each cost driver on the cost elements
 - > Calculate weighted impact score
 - > Determine current level of the driver and the amount of improvement possible
 - > Evaluate the teams ability to impact drivers



Anklesaria GROUP

DEVELOPING STRATEGIC OPTIONS (FUNCTIONS)

"Functions" are factors that determine the current value of cost drivers

- Brainstorm among team members
- Solicit "Ten Meter Manager" input
- Consider different perspectives



Anklesaria

GROUP

AIM & DRIVE®

AIM&DRIVE

REDUCING, CHANGING OR ELIMINATING ACTIVITIES

- ✓ Identify constraints, if any
- ✓ Select options (functions) that can be impacted
- ✓ Create a strategy statement for each selected function
- ✓ Evaluate risks/benefits from different perspectives
- ✓ Quantify potential savings on current Primary Cost
- ✓ Quantify savings from leveraging ideas
- ✓ Prioritize strategies for implementation— *make sure* some are implementable in the short term

ANKLESARIA GROUP

IMPLEMENTING AN ACTION PLAN

- Select chosen strategies
- What, who and when?
- Minimize or eliminate risks
- Develop contingency plans
- Obtain management buy-in
- Establish dates and participants for verification



Anklesaria

GROUP

Copyright © 2023 Duplication prohibited without written consent

AIM & DRIVE®

AIM&DRIVE

CONTINGENCY PLANS

- □ Focus on "why" (desired goal)
- Suggested contingencies
 - > Another strategic option (function) for the same cost driver
 - Use the same strategy but implemented differently

Anklesaria GROUP

VERIFYING THE ACTION PLAN

Monitoring Performance

- ◆ Appoint project coordinator/s
- ◆ Hold periodic reviews (initially, weekly/biweekly teleconferences)
- Modify action plans and expand on strategies
- Document meeting notes
- ◆ Develop new process maps
- Present status reports to management every 3-6 months



Anklesaria

GROUP

Copyright © 2023

Ouplication prohibited without written consent

AIM & DRIVE®

AIM&DRIVE

ETERNAL IMPROVEMENT

The journey never ends.....

- Expand on current project
 - > Other strategic options
 - > Other cost drivers
 - > Another cost element
- Educate other teams in the supply chain
- Kick off the next project within 6-9 months
 - > Another supplier/customer
 - > Another product/commodity/service (Primary Cost)

Anklesaria

GROUP

AIM&DRIVE® Total Cost Solution 3.0 **Managed Services Platform**



AIM&DRIVE® PORTAL

ONLINE LEARNING ACADEMY

AIM&DRIVE® IDEA-BANK

(AI-Based Industry-Knowledge-Base, Supplier Cost Opportunities, Customer Re-pricing Opportunities)

Agree

Areas of improvement team goals & rational

Identify Critical Cost Elements,

Impactable Costs & Future CF

Measure Secondary & Tertiary Costs and identify Cost Drivers

Define

Key cost drivers and identify strategic options Reduce

Change/Eliminate Activities, Risk-Benefit analysis Prioritize Strategies

Implement

Action Plan, Assign Ownership, Target Dates

Progress, Report Value Realtime Repository Monitoring

Eternal Continuous Improvement, Deferred Item

AIM&DRIVE® BASE

AWS GLOBAL SECURE CLOUD

APIs

Spend Analytics Assess Internal Spend

Supplier Analytics Supplier Market Commodity/ Labor Costs Modeling Calculates Realtime cost data

Supplier ERP/MRP Process, Time, Breakage

Company Financials Expense ${\bf Breakdown}$

Supplier Performance Manage Contract

ANKLESARIA EXPERTISE

Price Analysis

4. Price Analysis

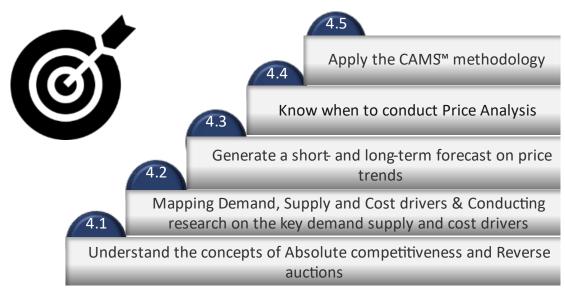


Copyright © 2023
Duplication prohibited without written consent

Price Analysis

Section Objectives

At the end of this section, you should be able to:



Anklesaria GROUP

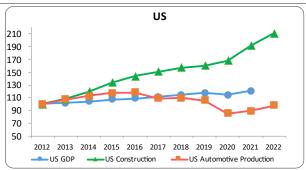
Price analysis is most useful when price is the only differentiating variable

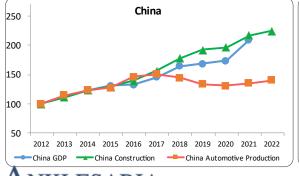
- Useful when the price of the product or service is market driven or standardized
- Should be used on critical contracts, even if cost models have been developed
- Forms of price analysis:
 - Trend Analysis
 - > Mapping Demand, Supply and Cost Drivers
 - > Tracking key price drivers and making observations
 - Generate forecast and buying strategy
 - ➤ Competitive Advantage Measurement System (CAMS™)
 - Absolute Comparisons
 - > Absolute Competitiveness (Benchmarking studies)
 - Reverse auctions

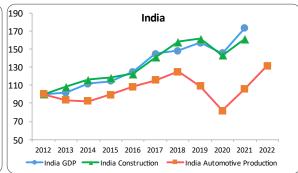




Analyze Demand Driver Trends







Sources: US Census, China Statistical Yearbook, India MOSPI, OICA.net, World Bank, BEA.gov

GROUP

Copyright © 2023 Duplication prohibited without written consent

Price Analysis

Analyze Trends to identify Impact on Prices

PRICE IMPACT	IMPLICATION	RATE (S, M, F)	TREND (Up, Down, Flat)	KEY DEMAND DRIVERS
1	Economies of US and India have experienced a downturn in the early half of 2020 owing to the Covid-19 pandemic while the Chinese economy witnessed a reduced growth rate. These economies have witnessed swift recoveries in the second half of 2020 and 2021 leading to an increased demand for steel.	S	Up	Economic growth
1	US has announced a spend of \$1.2 Trillion under the infrastructure Investment and Jobs Act 2022. Construction spend in China and India has gradually increased post the Covid-19 pandemic.	F	Up	Construction
1	Automotive sector in the US, India and China has witnessed a recovery in 2021 and 2022 post a production slump in 2020 due to the Covid-19	М	Up	Auto Manufacturing
1	Increasing economic viability of substitutes like aluminum puts downward pressure on prices.	S	Up	Substitute availability
PRICE IMPACT	IMPLICATION	RATE (S, M, F)	TREND (Up, Down, Flat)	KEY SUPPLY DRIVERS
1	Capacity Utilization had witnessed a significant drop due to Covid-19 reaching a low point of 49% in May 2020 but has since recovered to Pre-Covid levels of ~88% as of September 2021. The capacity utilization hasfallen down to levels of ~70% as of March 2023	S	Down	Capacity utilization
1			Up	Inventory
1	Industrial Production has witnessed a recovery since May 2020, reaching pre-covid levels of as of September 2021. Industrial Production has been reducing in 2023 reaching levels of 86% as of Jan 2023	S	ARIA	Production capacity LES

24

Cost Driver Trends determine Impact on Production Cost

KEY COST DRIVERS	TREND (Up, Down, Flat)	RATE (S, M, F)	IMPLICATION	PRICE IMPACT
Labor	Up	S	Increasing labor costs will put a slight upward pres on prices.	sure
Iron Ore	Down	S	Decreasing iron ore prices will put downward press on steel prices.	ure
Coal	Up	F	Since January 2022, Coal prices have increased ~37.3% leading to higher energy costs	1
Energy	Down	S	Natural Gas prices have decreased by 44.6% since Jan 2022	1

Summary

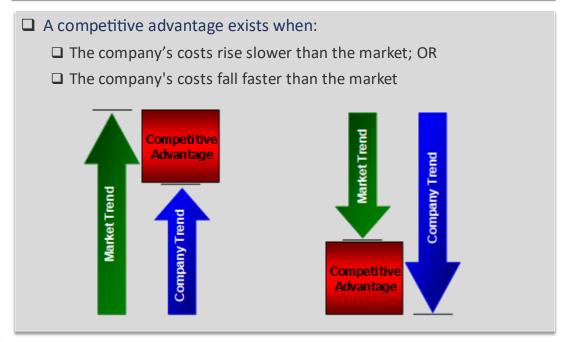
	Short Term		Long Term
•	As countries recover from the Covid -19 pandemic, continued economic growth will offset spare capacity. Increasing spend on construction within these 3 economies will increase demand for steel. Also increase in labor prices will put upward price pressures for steel. We expect prices to increase slightly in the short term (0 -3 months)	•	Economic growth in the US and developing nations will drive demand. Capacity utilization is expected to stabilize as total capacity is reduced. Energy costs are expected to remain flat or increase slightly as upgrades are done to infrastructure. We expect prices to stabilize in the long term.

GROUP

Copyright © 2023 Duplication prohibited without written consent

Price Analysis

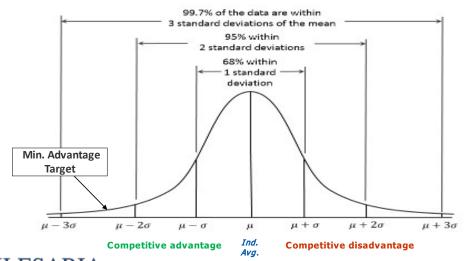
Competitive Advantage Measurement System (CAMS™)



ANKLESARIA GROUP

Minimum Advantage Target (MAT)

- Industry averages are just that—averages!
- World-class companies should strive to be in the top 2.5%16% of an industry group (~1 to 2 standard deviations from the mean)



Anklesaria GROUP

Copyright © 2023 Duplication prohibited without written consent

Price Analysis

Competitive Advantage Measurement System (CAMS™)

1. Pick a base period – e.g. January

2. Select an index or proxy index (public or private) – e.g. Bureau of Labor Statistics Thermoplastic resins and plastics materials

Series Id: PCU3252113252114

Series Title: PPI industry data for Plastics material and resins mfg-Thermosetting resins and plastics materials, not seasonally adjusted

Industry: Plastics material and resins mfg Product: Thermosetting resins and plastics materials

Base Date: 196012 Year: 2022

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Index Value	327.0	326.8	332.3	335.0	348.9	354.9	361.0	360.0	363.1	361.0	366.6	366.627
% change from Jan		-0.1%	1.6%	2.4%	6.7%	8.5%	10.4%	10.1%	11.0%	10.4%	12.1%	12.1%

3. Track changes in the index and company's prices (using January as the base)

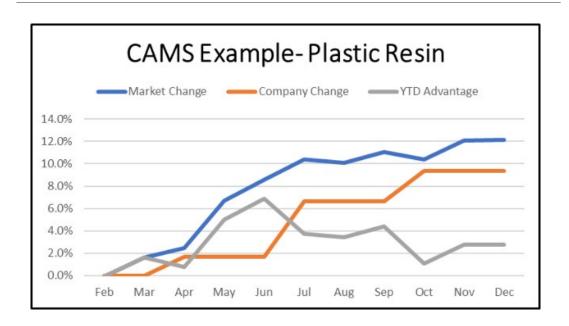
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Company Prices	\$3.00	\$3.00	\$3.00	\$3.05	\$3.05	\$3.05	\$3.20	\$3.20	\$3.20	\$3.28	\$3.28	\$3.28
% change from Jan		0.0%	0.0%	1.7%	1.7%	1.7%	6.7%	6.7%	6.7%	9.3%	9.3%	9.3%

4. Calculate Year To Date (YTD) Competitive Advantage from base date

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
YTD Advantage	,	-0.1%	1.6%	0.8%	5.0%	6.9%	3.7%	3.4%	4.4%	1.1%	2.8%	2.8%

NKLESARIA GROUP

Competitive Advantage Measurement System (CAMS™)



Anklesaria Grou

Copyright © 2023
Duplication prohibited without written consent

Price Analysis

Absolute Competitiveness Measurement

- Compares prices paid against one or more of the following:
 - · Overall industry average price
 - Prices paid by companies with similar buying power
 - · Prices paid by competitors
 - Prices paid by bestin-class companies
- Objectives of an absolute competitiveness study:
 - Determine where your prices stand among others
 - Understand how others are buying (i.e. pricing structure, terms, etc.)
- Critical Success Factors
 - Perform on strategic categories once every 3 years
 - Identify target companies for comparison within and outside your industry
 - Select a reputed third-party with a good network to conduct the study
 - Make observations on price, terms, requirements, personnel, etc.

Anklesaria GROUP

Reverse Auctions (e-Auctions)

- In reverse auctions, buyers invite suppliers to bid for their business with the objective of pushing prices down
- Typically, the bidding happens realtime online and therefore they are also known as e-Auctions or Electronic Auctions.

Critical Success Factors:

- Target Price The buyer should have a target price (based on knowledge of market prices, supplier costs and key cost drivers) that they would like to achieve through the reverse auction
- Category Selection Reverse auctions should only be conducted on
 Transactional/Routine Categories and NEVER on Strategic and Bottleneck Categories
- Prequalification of Suppliers Price should be the only differentiating factor amongst the suppliers invited to participate in the reverse auction
- Fixed Specs / SOW Reverse auctions should only be conducted when the Specs (for products) and SOW (for services) are clearly defined and not subject to change



GROUP

Should Cost Models

5. Basic Should Cost Models & Industry Cost Profiles

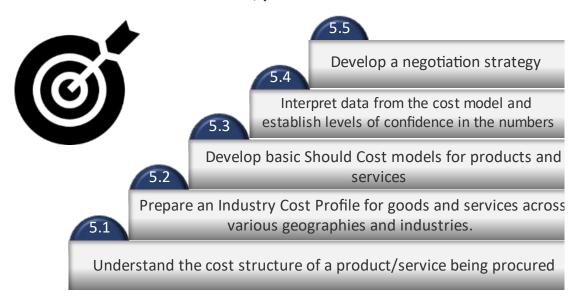


Copyright © 2023 Duplication prohibited without written consent

Basic Should Cost Models & Industry Cost Profiles

Section Objectives

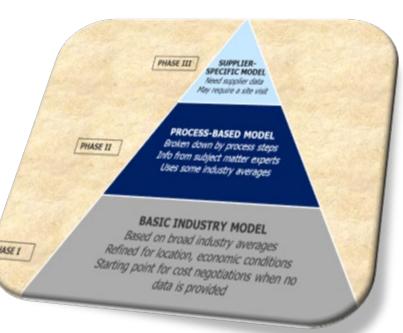
At the end of this section, you should be able to:



ANKLESARIA GROUP

Each situation requires a unique cost model

A simple model that helps you make an informed decision is better than a complex model that creates uncertainty



<u>Anklesaria</u>

GROUP

Copyright © 2023 Duplication prohibited without written consent

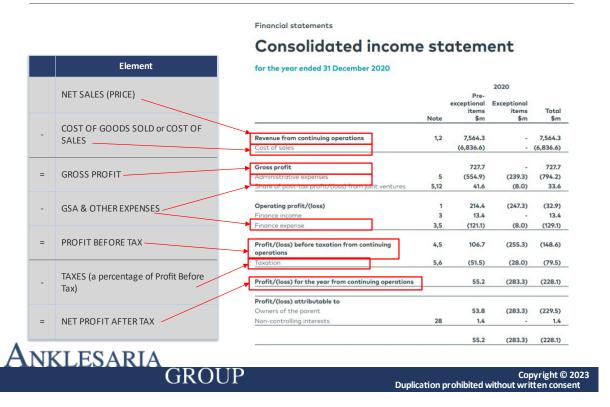
Basic Should Cost Models & Industry Cost Profiles

Cost Definitions

	Element	Definition
	Direct Material	Bill of Materials (BOM)
+	Direct Labor	Product: Labor required to convert direct material into a finished product (production worker wages) Service: Labor required to execute activities in the Statement of Work (SOW)
+	Manufacturing Overhead or Service Overhead	Indirect costs associated with the conversion process (Depreciation, energy and other plant operating costs, supervision,)
=	Cost of Goods Sold (COGS) or Cost of Sales (COS)	SUB-TOTAL
+	GSA (General, Selling, Administration) and Other Expenses	Costs incurred to keep the organization in operation (R&D, finance, procurement, marketing,)
+	Profit Before Tax	Profit before deduction of government taxes
=	PRICE	Total of all cost elements

Anklesaria GROUP

An Income Statement Approach



Basic Should Cost Models & Industry Cost Profiles

Building a basic industry should cost model

- Step 1. Build an Industry Cost Profile
- Step 2. Monetize one cost element (e.g. Direct Material = \$1.00)
- Step 3. Estimate should cost (divide this cost element \$ by its %)
- Step 4. Use Industry Cost Profile to estimate the other cost elements

Element	%		\$		Calculation	
Direct Material	50%	$ \neg$	\$1.00	2	= \$0.500/kg * 2kgs/part	
Direct Labor	10%		\$0.20		= \$2.00 * 0.10	1
Manufacturing Overhead	20%		\$040		= \$2.00 * 0.20	
Cost of Goods Sold	80%		\$1.60		= \$2.00 * 0.80	} 4
GSA & Other Expenses	10%		\$0.20		= \$2.00 * 0.10]
Profit Before Taxes	10%		\$0.20		= \$2.00 * 0.10	
PRICE (Should Cost)	100%	L,	\$2.00	3	= \$1.00 / 0.50	1

Step 1



Example

Product Should Cost Model



Copyright © 2023 Duplication prohibited without written consent

Basic Should Cost Models & Industry Cost Profiles

Case Study

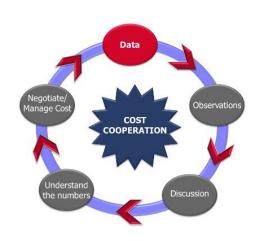
Product Should Cost Model



Case Study – Key Takeaways

- Prepare the Supplier

 Be an <u>Educator</u> and not an Auditor
- The objective of "understanding" the costs of the contract must be clearly communicated.
- Share screenshots of data sources used and validate any numbers that may be assumed in the model
- Walk the supplier through the logic for material cost and other assumptions
- Attempt to understand the difference between what the supplier quoted and what the model is showing
- Build a business case from the supplier's perspective, showing why they would want to enter this contract at your calculated price



Anklesaria

GROUP

Copyright © 2023 Duplication prohibited without written consent

Basic Should Cost Models & Industry Cost Profiles

Case Study

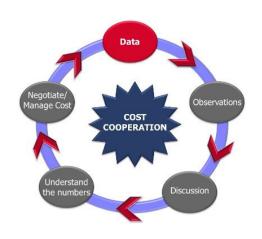
Service Should Cost Model



Case Study – Key Takeaways

- Prepare the Supplier

 Be an <u>Educator</u> and not an Auditor
- The objective of "understanding" the costs of the contract must be clearly communicated.
- Share screenshots of data sources used and validate any numbers that may be assumed in the model
- Walk the supplier through the logic for direct labour and other assumptions
- Attempt to understand the difference between what the supplier quoted and what the model is showing
- Build a business case from the supplier's perspective, showing why they would want to enter this contract at your calculated price





GROUP

Process Based Cost Models

6. Process-based Should Cost Models

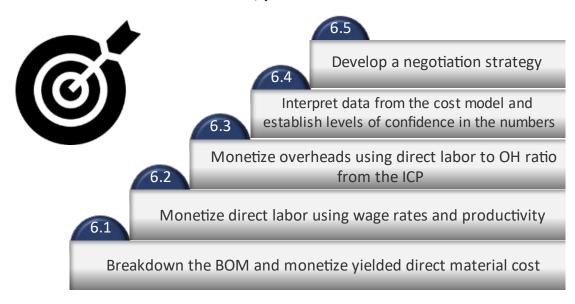


Copyright © 2023
Duplication prohibited without written consent

Process-Based Cost Models

Section Objectives

At the end of this section, you should be able to:



Anklesaria GROUP

Process-Based Cost Models

Steps for building a process-based cost model

Build a Basic Should Model	1
Understand the process being followed	2
Monetize the other elements of Cost of Goods Sold	3
Use cost profile to complete cost elements that are missing	4
Validate model with market/supplier information	5

Build Model Incrementally

Anklesaria

<u>GROUP</u>

Copyright © 2023 Duplication prohibited without written consent

Process-Based Cost Models

Building a process-based cost model

Element	Calculation
Direct Material	Calculate \$
Direct Labor	Calculate \$
Manufacturing Overhead	Calculate \$
Cost of Goods Sold	DM \$ + DL \$ + MOH \$
GSA & Other Expenses	% GSA * Should Cost
Profit Before Taxes	% PBT * Should Cost
SHOULD COST	cogs \$ / cogs %

Anklesaria GROUP

Building a process based should cost model

- Step 1. Build an Industry Cost Profile
- Step 2. Monetize DM, DL and MOH to calculate COGS (e.g. COGS = \$1.68)
- Step 3. Estimate should cost (divide this COGS \$ by its %)
- Step 4. Use Industry Cost Profile to estimate GSA and Profit

Element	%		\$		Calculation		
Direct Material	50%		\$1.05		=(\$0.500/kg * 2 kgs/part)/0.95		
Direct Labor	10%		\$0.21	2	= (\$20/hr/ 100 parts) / 0.95		
Manufacturing Overhead	20%		\$0.42		= 0.21 * (MOH/DL)		
Cost of Goods Sold	80%		\$1.68		= \$DM + \$DL + \$MOH	1	
GSA & Other Expenses	10%		\$0.21		= \$2.10 * 0.10	1	
Profit Before Taxes	10%		\$0.21		= \$2.10 * 0.10		
PRICE (Should Cost)	100%	┃┕₊	\$2.10	3	= \$1.68 / 0.80	1	

Step 1



GROUP

Copyright © 2023 Duplication prohibited without written consent

Process-Based Cost Models

Example

Process Based Cost Model



Case Study

Process Based Cost Model

<u>Anklesaria</u>

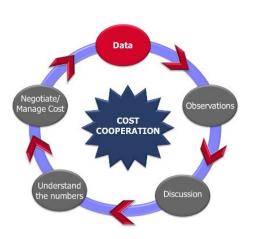
GROUP

Copyright © 2023 written consent

Process-Based Cost Models

Case Study – Key Takeaways

- Prepare your process-based cost model ready with screenshots and URLs of data sources used and document all assumptions made
- Thoroughly understand the numbers of the cost model and use them to evaluate the different supplier quotes received at a more granular level
- Understand the concept of material markup and the lack of correlation between the material cost and the material markup charged
- Understand the additional costs that constitute the Total Cost of Ownership for the product being analysed
- Build a business case from the supplier's perspective, showing why they would want to enter this contract at your calculated price





Duplication prohibited without written consent

Price DisciplineTM **Models**

7. Price Discipline™ Models

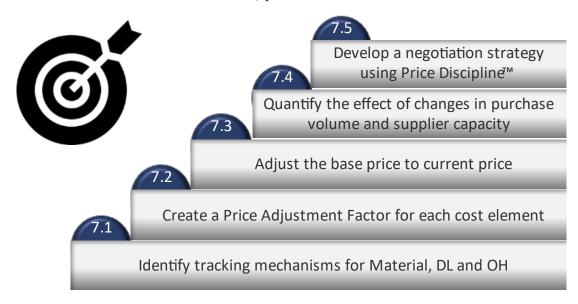


Copyright © 2023 Duplication prohibited without written consent

Price Discipline™ Models

Section Objectives

At the end of this section, you should be able to:



ANKLESARIA GROUP

Definition and benefits of using Price Discipline™

Price Discipline ™: A structured methodology to evaluate changes in price based on the understanding that various cost elements are NOT directly correlated

- Determines the reasonableness of a supplier's request for a change in price
- Sets the framework for all future discussions on price
- Useful in setting up Long Term Agreements (LTAs)

Anklesaria GROUP	Copyright © 2023 Duplication prohibited without written consent
Price Disc	ipline™ Models
Steps in building a PriceDiscipline™ Mod	el
Select a base period	1
Create industry cost profile	2
Identify and quantify tracking mechanisms	3
Adjust costs to current period	4
Negotiate current proposal	5
Monitor costs on a periodical basis	6
ANKLESARIA GROUP	Copyright © 2023 Duplication prohibited without written consent

Factors to consider when selecting tracking mechanisms

Adjusting costs:

Make a list of the factors that impact each cost element, quantify the impact of each factor and adjust respective cost elements

COST ELEMENTS	SAMPLE FACTORS					
Direct Material	 Market price Minimum Advantage Target (MAT) Volume/stability Technology changes Material yields Exchange rates 					
Direct Labor	 ➤ Wage rates ➤ Productivity ➤ Govt. regulations 					
Manufacturing Overhead & GSA	Fixed OH – Volume, inflationVariable OH – Inflation					
Profit before Tax	RiskValue added					

<u>Anklesaria</u>

GROUP

Copyright © 2023
Duplication prohibited without written consent

Price Discipline™ Models

Building a Price Discipline™ model

Step 1. Build an Industry Cost Profile

Step 2. Monetize ICP by breaking down base price into major cost elements

Step 3. Identify tracking mechanisms and prepare Price Adjustment Factors (PAF)

Step 4. Multiply base cost elements by PAF

Step 3

		_		•
Element	%	\$	\$	Calculation
Direct Material	50%	\$1.05	\$1.10	=\$1.05*(1+0.10-0.03)*(1-0.02)
Direct Labor	10%	\$0.21	\$0.22	= \$.21*(1+0.07)* (10.02)
Manufacturing Overhead	20%	\$0.42	\$0.39	=(0.42*0.8*1.06*(100/120))+(0.42*0.2*1.06)
Cost of Goods Sold	80%	\$1.68	\$1.71	= \$DM + \$DL + \$MOH
GSA & Other Expenses	10%	\$0.21	\$0.19	=(0.21*0.9*1.06*(100/120))+(0.21*0.1*1.06)
Profit Before Taxes	10%	\$0.21	\$0.21	= (\$1.71 +\$0.19)/(10.10)
PRICE (Should Cost)	100%	\$2.10	\$2.11	= COGS + GSA + Profit

Step 1 Step 2 Step 4

ANKLESARIA GROUP

Duplication prohibited without written consent

Adjustment of MOH and GS&A Expenses

Example: Fixed and Variable costs for a Smart Watch



Price Discipline™ Models

Profitability is the key to competitiveness

- Acknowledge the need for suppliers to make a reasonable profit early in the process
- Profit should be discussed when it becomes a "critical" cost
- Profit should be based on risk and/or value added
- Select appropriate profit option:
 - Current supplier profit margin
 - Industry margin
 - · Industry margin plus premium
 - Current absolute per unit dollars
 - Current total dollars (ROI/KPI)



Price Discipline™ Models

Example

Price Discipline™ Model



Copyright © 2023 Duplication prohibited without written consent

Price Discipline™ Models

Case Study

Price Discipline™ Model



Case Study – Key Takeaways

- Understand your bargaining power and what opportunity you represent for the supplier
- Present your methodology and show all assumptions and data sources used in your model to your management and the supplier
- Walk through your model step-by-step (do not show your final number)
- Try to encourage the supplier to reconcile differences and clarify where "you went wrong"
- Assure the supplier that you are not after their profits. You may consider using a 3year industry moving average plus a reasonable premium for future profits.
- Look at opportunities to collaboratively reduce costs of each element
- Establish a "stake in the ground" which is the new price and the right mix of cost elements. Incorporate methodology and data sources into future contracts.



Total Cost of Ownership Models

8. Total Cost of Ownership (TCO) Models

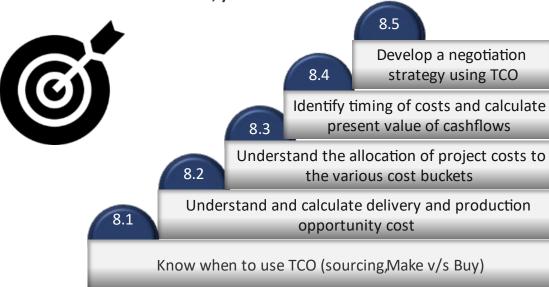


Copyright © 2023
Duplication prohibited without written consent

Total Cost of Ownership Models

Section Objectives

At the end of this section, you should be able to:



Anklesaria GROUP

Total Cost of Ownership and Opportunity Cost

TCO: The Present value of all costs associated with a product/service, incurred over its expected life

- TCO Captures both cash costs and <u>opportunity</u> costs
 - A Cash Cost is a physical outflow of money over a project's life
 - An Opportunity Cost is the value of a lost benefit resulting from a certain action/decision

SOURCING

- Examines the overall financial impact of sourcing options including Make v/s Buy
- Analysis helps user make the "right" sourcing decision

COST MANAGEMENT

- Identifies critical areas to focus on
- Takes negotiation beyond purchase price
- Useful in establishing the value of incentives and liquidated damages in contracts

Anklesaria

GROUP

Copyright © 2023 Duplication prohibited without written consent

Total Cost of Ownership Models

Total cost of ownership goes beyond the purchase price

- Understand cost elements that make up the purchase price, including profit
- Later, extends to other cost components included in the "Total Cost of Ownership"

Direct Material

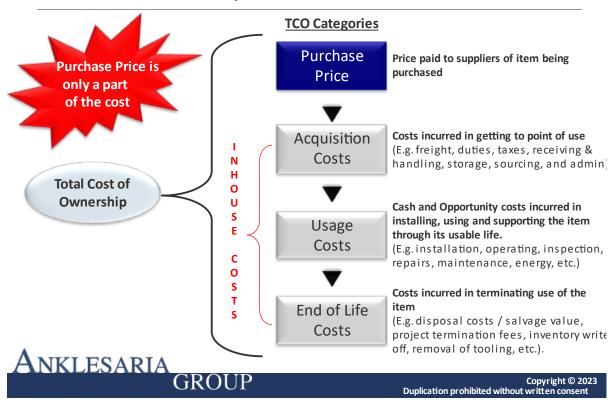
- +Direct Labor
- +Manufacturing Overhead
- =Cost of Goods Sold
- +GSA & Other
- +Profit Before Taxes

= PURCHASE PRICE

- Purchase Price
- +Acquisition Cost
- **=LANDED COST**
- +Usage Cost
- +End of Life Cost
- **=TOTAL COST OF OWNERSHIP**



Total Cost of Ownership structure



Total Cost of Ownership Models

Opportunity cost defined

- An OPPORTUNITY COST is the value of a lost benefit resulting from a certain action/decision
- Calculation of an Opportunity Costis the lost contribution from one unit of sales/production multiplied by the number of units lost due to a missed or lost opportunity (e.g. delivery, throughput, efficiency, etc.)
 - Opportunity Cost = Contribution * number of units lost
- CONTRIBUTION = Sales price variable costs
 - Example:
 - > Product sold: widgets
 - > Sales Price = \$100.00 per unit
 - Variable Costs = \$70.00 per unit (Anklesaria assumption)
 - \rightarrow Contribution = \$100.00- \$70.00 = \$30.00 per unit

ANKLESARIA

GROUP

Copyright © 2023

Duplication prohibited without written consent

Opportunity Cost Example: Delivery

Sales Price = \$100.00 per unit

Variable Costs = \$70.00 per unit

Contribution = \$30.00 per unit

Problem: 2 suppliers, A & B are bidding on a contract to supply a certain piece of equipment. Supplier A's machine has a throughput of 700 widgets per day and can be delivered in 130 days. Supplier B's machine has a throughput of 650 widgets per day with delivery in 100 days. Assuming that this machine is the bottleneck and that the entire output can be sold, what is the delivery opportunity cost for each supplier?

Solution:

Delivery Opportunity cost for B = \$ 0 (Best -in-class delivery time)

Delivery Opportunity cost for A = (Delivery time for A — Delivery time for B) * B's Output per day * Unit Contribution

= (130 - 100) * 650 * \$ 30 = **\$ 585,000**

In calculating TCO, a one-time Delivery Opportunity cost of \$ 585,000 will need to be added to the Total Cost for Supplier A



GROUP

Copyright © 2023 Duplication prohibited without written consent

Total Cost of Ownership Models

Opportunity Cost Example: Delivery

SUPPLIER A						
	Present	Year 1	Year 2	Year 3	Year 4	Year 5
PURCHASE PRICE:		***	•••	•••	•••	•••
ACQUISITION COST:		•••	•••	•••	•••	•••
USAGE COSTS:						
Opportunity CostDelivery	\$585,000					
END OF LIFE COSTS:			•••		•••	···

SUPPLIER B						
	Present	Year 1	Year 2	Year 3	Year 4	Year 5
PURCHASE PRICE:	•••	•••	•••		•••	···
ACQUISITION COST:		•••	•••		•••	•••
USAGE COSTS:						
Opportunity CostDelivery						
END OF LIFE COSTS:			•••	•••	•••	

Anklesaria GROUP

Opportunity Cost Example: Production Speed

Sales Price = \$100.00 per unit Variable Costs = \$70.00 per unit

Contribution = \$30.00 per unit

Problem: 2 suppliers, A & B are bidding on a contract to supply a certain piece of equipment. Supplier A's machine has a throughput of 700 widgets per day while Supplier B's machine has a throughput of 650 widgets per day. Both machines have an expected Up time of 240 days per year. Assuming that the entire output can be sold, what is the production opportunity cost for each supplier?

Solution:

Production Opportunity cost for A = \$ 0 (Best -in-class throughput)

Production Opportunity cost for B = (Throughput of A - Throughput of B) * Machine Up time per year * Unit Contribution

= (700 - 650) * 240 * \$ 30 = **\$ 360,000**

In calculating TCO, a recurring Production Opportunity cost of \$ 360,000 will need to be added to the Total Cost for Supplier B for the duration of the project.



GROUP

Copyright © 2023 Duplication prohibited without written consent

Total Cost of Ownership Models

Opportunity Cost Example: Production Speed

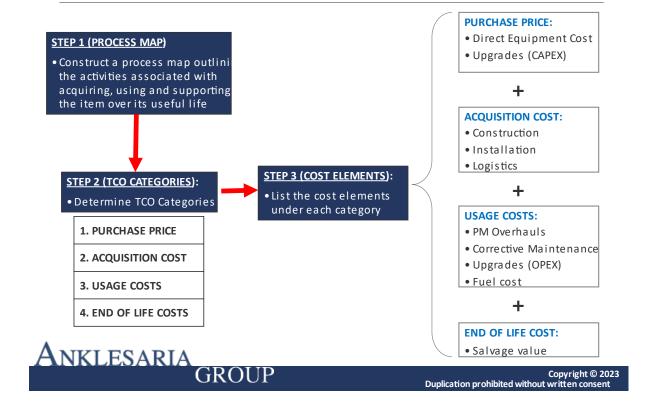
SUPPLIER A						
	Present	Year 1	Year 2	Year 3	Year 4	Year 5
PURCHASE PRICE:	•••	***	•••	•••	***	•••
ACQUISITION COST:	•••	•••	•••	•••	•••	•••
USAGE COSTS:						
Opportunity CostDelivery	\$585,000					
Opportunity CostProduction						
END OF LIFE COSTS:	•••	***	•••	•••	***	•••

SUPPLIER B

	Present	Year 1	Year 2	Year 3	Year 4	Year 5
PURCHASE PRICE:	***	•••	***	***	***	•••
ACQUISITION COST:	•••	•••	•••	***	•••	•••
USAGE COSTS:						
Opportunity CostDelivery						
Opportunity Cost Production		\$360,000	\$360,000	\$360,000	\$360,000	\$360,000
END OF LIFE COSTS:	***	•••	***	•••	***	•••

Anklesaria GROUP

Building a Total Cost of Ownership Model



Total Cost of Ownership Models

Building a Total Cost of Ownership Model

STEP 4 (MEASUREMENT):	ELEMENT	R/O	MEASURE
• Determine if each cost	PURCHASE PRICE:		
element is recurring (R) or one-time (O)	> Direct Equipment Cost	0	Supplier quote (\$2,575,000 per Turbine
Identify how each element	> Upgrades (CAPEX)	0	Supplier quote (\$320,000 per Turbine)
is to be measured	ACQUISITION COST:		
	> Construction	0	Supplier quote (\$500,000 per Turbine)
	> Installation	0	Supplier quote (\$240,000 per Turbine)
	> Logistics	0	Supplier quote (\$110,000 per Turbine)
	USAGE COSTS:		
	> Delivery Opportunity Cost	0	\$10,500,000
	> Preventive Maintenance	R	\$106,667/Turbine per year
	> Corrective Maintenance	R	\$646,000/Turbine per year
	> Fuel cost	R	\$3,000,000/Turbine per year
	END OF LIFE COSTS:		
	> Salvage value	0	\$600,000/Turbine



Analyzing TCO: Use cost modeling skills beyond purchase price Identify the main cost categories within TCQ(e.g. Usage costs) Identify main cost element(s) within chosen category (e.g. Corrective Maintenance) Build cost model(s) for chosen element(s) 3 Test for reasonableness 4 Use in negotiations as necessary 5



Copyright © 2023 Duplication prohibited without written consent

Total Cost of Ownership Models

Example

Total Cost of Ownership Model



Case Study

Total Cost of Ownership Model



Copyright © 2023
Duplication prohibited without written consent

Total Cost of Ownership Models

Case Study – Key Takeaways

- Communicate that the decision is going to be based on a long-term evaluation and obtain the willingness from the supplier to work on developing and executing cost management strategies on all the critical future cash flows.
- Obtain a cost breakdown for the machine and evaluate the reasonableness of the numbers. Markups should be evaluated and discussed. Remember the intent is to "understand" the numbers first and then ensure that they are fair and reasonable. This should be communicated to the supplier.
- Identify strategies to reduce the delivery leadtime. Premiums for earlier delivery should be discussed.
- Terms and conditions such as payment terms, liability during shipment should be carefully looked at.
- Unplanned maintenance (Mean Time Between Failure) turnaround time should be added to the analysis and evaluated.
- The transition process should be laid out in detail with contingency plans in place in case things go wrong.



Implementing

Strategic Cost Management

Leveraging Technology and Online Data Resources

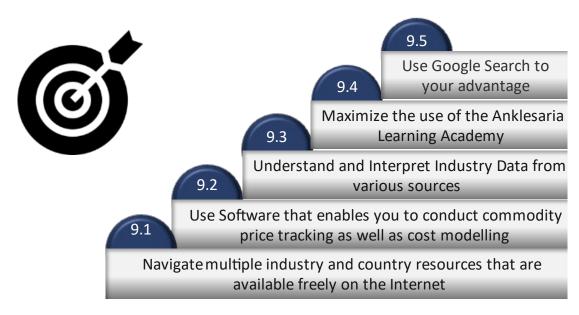


Copyright © 2023
Duplication prohibited without written consent

Research and Technology

Section Objectives

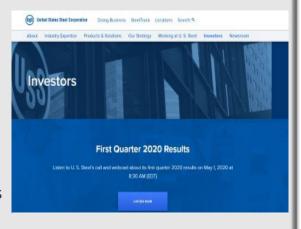
At the end of this section, you should be able to:



Anklesaria GROUP

Gathering information for Cost & Price analysis

- Obtaining data from suppliers through RFI/RFQ/RFP
 - Be consistent and persistent
- Government statistics
- Trade associations
- Subject matter experts
- On-line databases
- Google Search Keywords
- Company financial reports



Anklesaria

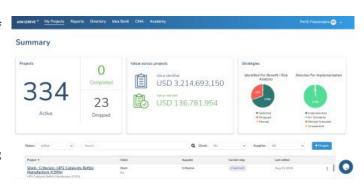
GROUP

Copyright © 2023 Duplication prohibited without written consent

AIM&DRIVE® Total Cost Solution 3.0 Managed Services Platform

Research and Technology

- The AIM&DRIVE® managed services platform is designed to take an organization through the entire journey of cost management.
- Assess the level of cost management knowledge and processes within your organization and identify areas of improvement using the CMA tool.
- Fill knowledge gaps by using the Learning Academy that houses the AIM&DRIVE® training suite



- Develop product, service and process cost models and Price Discipline models using the custom templates and data modules within the platform.
- Develop category strategies, category cost strategies as well as cost optimization and management strategies using the 8-step AIM&DRIVE® process coded into the platform
- Leverage ideas developed with a single supplier across the enterprise and identify opportunities for continuous improvement using the AIM&DRIVE ® Ideabank



GROUP

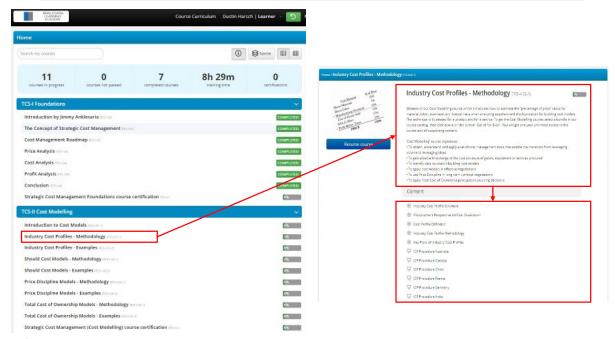
Anklesaria's Learning Academy

- Complements the content being covered during the live sessions
- Pool of Online resources spanning multiple industries and multiple geographies
- 12-month access post completion of live sessions
- URL: https://anklesaria.talentlms.com/index



Research and Technology

Using the Anklesaria Online Learning Academy



ANKLESARIA

GROUP

Copyright © 2023

Duplication prohibited without written consent

Implementing Total Cost Solutions 3.0: Moving from Knowing to Doing



Copyright © 2023 Duplication prohibited without written consent

Implementing Total Cost Solutions 3.0

Implementation Checklist: Moving from Knowing to Doing

- Set up meeting with Anklesaria Coach
- Identify suitable project to use the Anklesaria Toolkit
- Select participants (Managers, Analysts, stakeholders, ...)
 and develop scope of work
- Conduct weekly or bi-weekly calls to monitor progress, share learnings and develop negotiation strategy
- Make presentation to leadership and stakeholders for critique and buy-in
- Present model/s to supplier and negotiate accordingly
- Create a library to store templates, data sourceætc
- Update the library from time to time



Value of Strategic Cost Management

To Customers:

- Develop a sustained competitive advantage
- Understand cost structures better
- Continuously improve
- Break down customer supplier barriers
- Set the stage for a "real" alliance
- Leverage supplier's knowledge to reduce

To Suppliers:

- Improve cost competitiveness
- Increase market share
- A different insight into costs
- Reduce business risk through stability
- A methodology for cost management
- Leverage customer's resources to reduce costs

<u>Anklesaria</u>

GROUP

Copyright © 2023 Duplication prohibited without written consent

And Finally...

Every morning in Africa, a gazelle wakes up. It knows it must run faster than the fastest lion. or it will be killed.

Every morning a lion wakes up. It knows it must outrun the slowest gazelle, or it will starve to death.

It doesn't matter whether you are a lion or gazelle:

Source: Roger Bannister



Anklesaria GROUP

Duplication prohibited without written consent



Anklesaria GROUP

Strategic Cost Management:

Course Evaluation

STRATEGIC COST MANAGEMENT SEMINAR EVALUATION

Date(s) of seminar:	Instructor Name:							
Participants Name (Optio	nal):							
Where do you work?	Company:							
	Division / Depa	rtment:						
	Current job posi	ition / title:					_	
How long have you work	ed in this industr	y?						
☐ Never ☐ 1 ye	ear or less	2-5 years	5-10) years		10 or more		
For the questions below,	please circle you	ur choice using t	the fol	llowing k	<u>ey:</u>			
① = Unacceptable	2 = Poor	3 = Average	4) ₌ Good		S = Excelle	nt	
Value of seminar workbo Comments:	ok & templates	1	2	3	4	5		
Value of case studies / tea Comments:	ım project	1	2	3	4	5		
Effectiveness of audio / v. Comments:	isuals	1	2	3	4	5		
Quality of instruction Comments:		1	2	3	4	5		
Overall quality of the sem Comments:	iinar	1	2	3	4	5		

What was the value of the semir	nar to your time? (Please check	box)		
Value exceeded time	Value equaled time	□ Va	alue less tha	n time
Would you be interested in a ser	minar about:			
Collaborative Strategies to It Analyzing Supply Markets? Developing a Effective Strate Seminar strengths: what was more		Chain?	☐ Yes ☐ Yes ☐ Yes	□ No □ No □ No
Semmar strengths. What was inc	ost valuable to you.			
Seminar weakness: what would	you recommend you improve?			
Other comments				
We value your comments. If you did not submit this evaluation to the instructor at the end of the seminar, fax it to (858) 755-2139 or mail it to:				
Anklesaria Group, Inc. 1172 Cuchara Drive Del Mar, CA 92014				

APPENDIX A:

List of Data Sources

Appendix A: List of Data Sources

DATA SOURCE / HYPERLINK NAME	URL
AGI Data Sources	www.anklesaria.talentlms.com (Username/Password: one used for pre-work)
USA Trade Online	http://www.usatradeonline.gov/
Securities Exchange Commission (SEC)	http://www.sec.gov
Foreign Labor Statistics	http://www.bls.gov/fls/home.htm
International Statistical Agencies	http://www.bls.gov/bls/other.htm
International Labor Organization	http://laborsta.ilo.org
Foreign Government Data Sources	http://www.lib.umich.edu/govdocs/stforeig.html
Standard & Poor's Industry Surveys*	http://www2.standardandpoors.com
IDC*	http://www.idc.com
Gartner*	http://www.gartner.com
Career Journal*	http://www.careerjournal.com
Salary.com*	http://www.salary.com
Hoovers*	http://www.hoovers.com
SIC Code Search	http://www.osha.gov/oshstats/sicser.html
NAICS Code Search	https://www.census.gov/econ/isp/
Eurostat	http://epp.eurostat.ec.europa.eu
European NACE	
Codes	http://ec.europa.eu/eurostat/ramon/index.cfm?TargetUrl=DSP_PUB_WELC https://www.ons.gov.uk/methodology/classificationsandstandards/ukstandardindustrialclassificationofeconomicactivities/uksic2007
UK SIC Codes	nttps://www.ons.gov.uk/methodology/classificationsandstandards/ukstandardindustrialclassificationofeconomicactivities/uksic200/
Singapore SSIC Codes	http://www.singstat.gov.sg/methodologies-standards/statistical-standards-and-classifications/SSIC
Australia SIC Codes	http://www.abs.gov.au/ausstats/abs@.nsf/0/7cd8aebba7225c4eca25697e0018faf3?opendocument
India Ministry of Statistics and Programme Implementation	http://mospi.nic.in/
US Economic	https://www.census.gov/econ/isp/

Census	
National	
Bureau of	http://www.stats.gov.cn/
Statistics of	nttp.//www.stats.gov.cn/
China	
RMA*	http://www.rmau.org
Bizminer	
Financial	http://www.bizminer.com/products/analysis/industry/financial-ratios-profiles.php?aid=78
ratios*	http://www.bizminer.com/products/analysis/industry/imandar-ratios-promes.pmp:aid=76
Bureau of	
Labor Statistics	http://www.bls.gov
Occupational	
Employment	http://www.bls.gov/oes/home.htm
Statistics	nttp.//www.bis.gov/ocs/none.ntm
Dun &	
Bradstreet*	http://www.dnb.com
Producer Price	
Index	http://www.bls.gov/ppi/home.htm
Employment	
Cost Index	http://www.bls.gov/ncs/ect/home.htm
Labor	
Productivity	http://www.bls.gov/lpc/home.htm
Multifactor	
Productivity	http://www.bls.gov/mfp/home.htm
Mergent	
Online*	http://www.mergentonline.com/login.php
IBIS world*	http://www.ibisworld.com/
Business Week	www.businessweek.com
Capital IQ*	www.capitaliq.com
China Briefing	www.china-briefing.com
Google Finance	http://www.google.com/finance
Reuters*	www.reuters.com
Platts*	www.platts.com
Salary Expert	www.salaryexpert.com
Factiva*	www.factiva.com
Yahoo Finance	http://biz.yahoo.com/ic/
Lexis Nexis*	http://www.lexisnexis.com/
EMIS*	https://www.exisnexis.com/
	https://www.emis.com/
Economic	http://www.siu.com/public/
Intelligence	http://www.eiu.com/public/
unit*	
Frost and	www.frost.com
Sullivan*	
Forrester	www.forrester.com
Research*	
Worldwide	http://ctate.coed.org/source/list.acp
statistical	http://stats.oecd.org/source/list.asp
resources Mintal*	www.mintol.com
Mintel*	www.mintel.com
Bizstats	http://www.bizstats.com/

ONDD (Belgium	
Export Credit	https://www.credendo.com/
Agency)	
Organisation	
Internationale	
des	http://www.oica.net/
Constructeurs	
d'Automobiles	
Propurchaser*	http://www.propurchaser.com/
Economagic	http://www.economagic.com

*require subscriptions

Other Anklesaria Courses Offered:

- Strategic Sourcing: Creating a Winning Supply Base
- Supply Market Analysis: Creating Competitive Advantage through the Power of Knowledge
- Financial Analysis for Effective Supply Chain Management
- AIM & DRIVE: Eight Steps to Managing Costs through the Supply Chain

"We have now fully deployed AIM & DRIVE at Nokia for all component solutions. AIM & DRIVE is also playing a major role in our overall cooperation and collaboration with our suppliers' network in a very positive partnership spirit which is the foundation of our strategy."

"I have used the Anklesaria Cost Roadmap repeatedly over the last ten years with three organizations, to great effect each time. We have been able to take millions of dollars out of supply chain costs through knowing just how much there is that can be avoided, either by identifying and jointly removing those costs that are not valid for us, or through helping suppliers take down their own cost base. The AIM&DRIVE® process is a great way to get a structured start, running the process in parallel with multiple suppliers."

"I truly believe that this process (AIM & DRIVE®) has probably been the single biggest catalyst for change in this organization over this past year."

"I have been personally involved with Anklesaria's AIM&DRIVE® process over the past several years with two large employers. The process really works..! I have yet to find any other methodology that provides a comparable return-on-investment.

Jimmy and his team are true professionals, and they deliver incredible results each and every time."

-Jean-Francois Baril Senior VP Sourcing and Procurement: Nokia

-Neil A. Deverill Former VP Procurement: Anglo American Corporation Philips Electrolux

Robert Croatt
President:
Goebel Fixture Company

-Steve Kesinger Vice President, Procurement Nordstrom