Healthcare Facilities Management

Module 4: Finance

Student Workbook







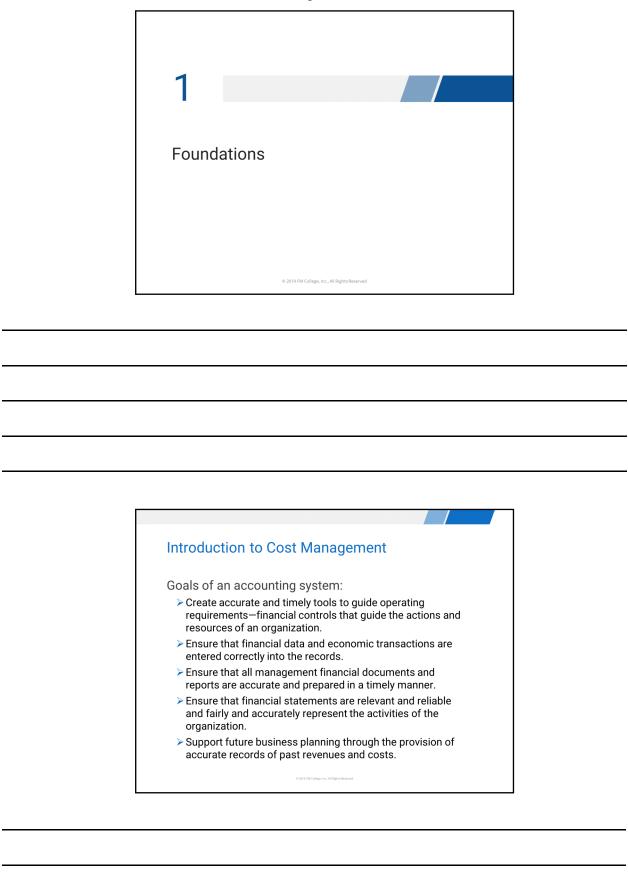
Lesson 14 ~ Finance 1



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Introduction to Cost Management

Financial Accounting

- > Provides data for external users.
- Provides objective and verifiable financial information; emphasis on precision.
- Must follow externally imposed rules.
- Reflects aggregate, summarized data for the entire organization.
- > Provides a historical orientation.

Management Accounting

- > Provides data for internal users.
- Includes financial and nonfinancial information and, sometimes, subjective information; emphasis is on relevance and timeliness.
- Not bound by mandatory rules.
- Reflects parts of an organization as well as the whole organization.
- Emphasizes providing information about future events.

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Chart of Accounts

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Numbering	d Chart of Category	Purpose
1000 – 1999	Assets	Physical, financial or intangible resources that retain value for a period of time after purchase
2000 – 2999	Liabilities	Debts incurred that are expected to result in future negative cash flows; can also include an assessment of net risk items
3000 – 3999	Equity	An organization's financial worth; Assets – Liabilities = Net assets
4000 – 4999	Income or Revenue	Cash or properties received in exchange for goods or services or from investments; an organization's income sources
5000 - 5999	Job Costs/Cost of Goods Sold	Costs specific to product or job
6000 – 6999	Overhead Costs or Expenses	General costs of operations (not specific to product or service
7000 – 7999	Other Income	Income outside of normal business
8000 - 8999	Other Expense	Expense outside your normal business

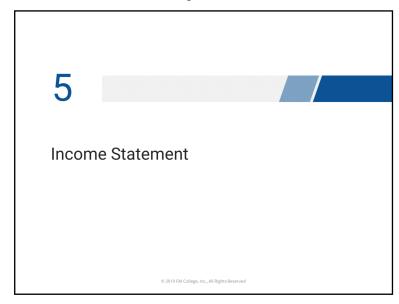
Double Entry

Accounting: Double Entry System The double entry system of accounting or bookkeeping means that every business Туре Account Debit Credit Cash \$200 transaction will involve two accounts (or more). Liability Loans \$200 For example, when a company borrows money from its bank, the company's Cash account will increase and its liability account Loans Payable will increase. Account Debit Credit Туре Asset Cash \$200 If a company pays \$200 for an advertisement, its Cash account will Adv'g \$200 Expen. decrease and its account Advertising Expense will increase. Double entry also allows for the **accounting** equation (assets = liabilities + owner's equity) A third aspect of double entry is that the amounts entered into the general ledger accounts as debits must be equal to the amounts entered as credits. (debits = credits)

Balance Sheet

Accounting: Balance Sheet The balance sheet is one of the three fundamental financial statements and is key to both financial modeling and accounting. The balance sheet displays the company's total assets, and how these assets are financed, through either debt or equity. It can also sometimes be referred to as a statement of net worth, or a statement of financial position. The balance sheet is based on the fundamental equation: Assets = Liabilities + Equity.

(larger image on next slide)



Accounting: Income Statement The Income Statement is one of a company's core financial statements that shows their profit and loss over a period of time. Profit or loss is determined by taking all revenues and subtracting all expenses from both operating and non-operating and non-operating activities. The statement displays the company's revenue, costs, gross profit, selling and administrative expenses, other expenses and income, taxes paid, and net profit, in a coherent and logical manner. **Description of the statement displays the company's revenue, costs, gross profit, selling and administrative expenses, other expenses and income, taxes paid, and net profit, in a coherent and logical manner. **Description of the statement displays the company's revenue, costs, gross profit, selling and administrative expenses, other expenses and income, taxes paid, and net profit, in a coherent and logical manner.

AMAZON.COM, IN	C.					
CONSOLIDATED STATEMENTS O (in millions, except per sha						
	Year Ended December 31.					
	_	2015		2016		2017
Net product sales	S	79,268	S	94,665	S	118,573
Net service sales		27,738		41,322		59,293
Total net sales		107,006		135,987		177,866
Operating expenses:						
Cost of sales		71,651		88,265		111,934
Fulfillment		13,410		17,619		25,249
Marketing		5,254		7,233		10,069
Technology and content		12,540		16,085		22,620
General and administrative		1,747		2,432		3,674
Other operating expense, net		171		167		214
Total operating expenses		104,773	_	131,801	_	173,760
Operating income		2,233		4,186	_	4,106
Interest income		50		100		202
Interest expense		(459)		(484)		(848
Other income (expense), net		(256)		90		346
Total non-operating income (expense)		(665)	_	(294)	_	(300
Income before income taxes		1,568		3,892		3,800
Provision for income taxes		(950)		(1,425)		(769
Equity-method investment activity, net of tax		(22)		(96)		(4
Net income	S	596	\$	2,371	\$	3,033
Basic earnings per share	S	1.28	\$	5.01	S	6.32
Diluted earnings per share	S	1.25	\$	4.90	S	6.15
Weighted-average shares used in computation of earnings per share:						
Basic		467		474		480
Diluted		477		484		493

Cash Flow Statement

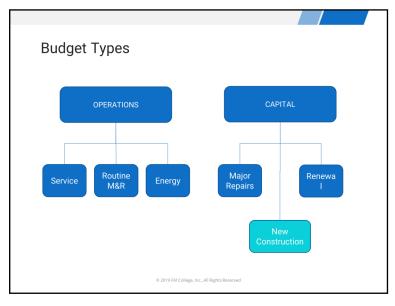
A Cash Flow Statement (also called the Statement of Cash Flows) shows how much cash is generated and used during a given time period. It is one of the main financial statements analysts use in building a three statement model. The main categories found in a cash flow statement are: operating activities, and innancing activities, and innancing activities of a company and are organized respectively. The total cash provided from or used by each of the three activities is summed to arrive at the total change in cash for the period, which is then added to the opening cash balance to arrive at the cash flow statement's bottom line, the closing cash balance. (See sample on next slide)

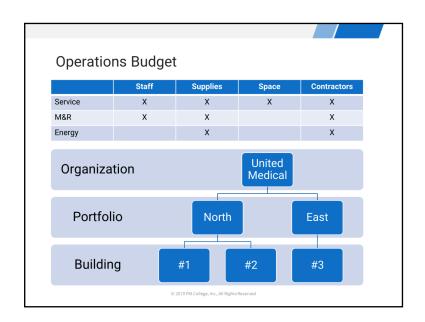
AMAZON.COM. INC.			
CONSOLIDATED STATEMENTS OF C. (in millions)	ASH FLOWS		
	Year Ended December 31.		
	2015	2016	2017
CASH AND CASH EQUIVALENTS, BEGINNING OF PERIOD	\$ 14,557 \$	15,890 \$	19,33
OPERATING ACTIVITIES:			
Net income	596	2,371	3,03
Adjustments to reconcile net income to net cash from operating activities:			
Depreciation of property and equipment, including internal-use software and website development, and other amortization, including capitalized content costs	6,281	8,116	11,47
Stock-based compensation	2,119	2,975	4,21
Other operating expense, net	155	160	20
Other expense (income), net	250	(20)	(29
Deferred income taxes	81	(246)	(2
Changes in operating assets and liabilities:			
Inventories	(2,187)	(1,426)	(3,58
Accounts receivable, net and other	(1,755)	(3,367)	(4,78
Accounts payable	4,294	5,030	7,17
Accrued expenses and other	913	1,724	28
Unearned revenue	1,292	1,955	73
Net cash provided by (used in) operating activities	12,039	17,272	18,43
INVESTING ACTIVITIES:			
Purchases of property and equipment, including internal-use software and website development	(5,387)	(7,804)	(11,95
Proceeds from property and equipment incentives	798	1,067	1,89
Acquisitions, net of cash acquired, and other	(795)	(116)	(13,97
Sales and maturities of marketable securities	3,025	4,733	9,98
Purchases of marketable securities	(4,091)	(7,756)	(13,77
Net cash provided by (used in) investing activities	(6,450)	(9,876)	(27,81
FINANCING ACTIVITIES:			
Proceeds from long-term debt and other	353	621	16,23
Repayments of long-term debt and other	(1,652)	(354)	(1,37
Principal repayments of capital lease obligations	(2,462)	(3,860)	(4,79
Principal repayments of finance lease obligations	(121)	(147)	(20
Net cash provided by (used in) financing activities	(3,882)	(3,740)	9,86
Foreign currency effect on cash and cash equivalents	(374)	(212)	71
Net increase (decrease) in cash and cash equivalents	1,333	3,444	1,18
CASH AND CASH EQUIVALENTS, END OF PERIOD	S 15,890 S	19,334 \$	20,52
SUPPLEMENTAL CASH FLOW INFORMATION:			
Cash paid for interest on long-term debt	S 325 S	290 \$	32
Cash paid for interest on capital and finance lease obligations	153	206	31
Cash paid for income taxes, net of refunds	273	412	95

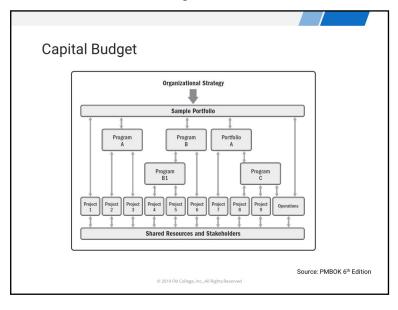


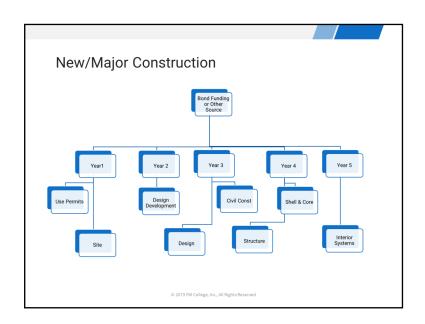
Budget Types

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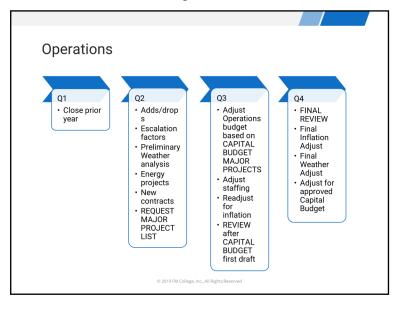


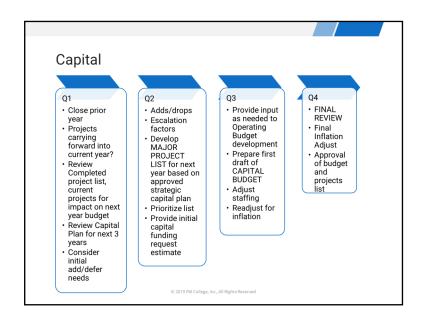


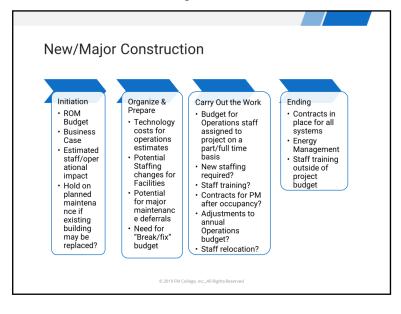




Development **Developing A Budget** Process for next year's budget usually starts at beginning 2nd Quarter Operating Budget Capital Budget > Draft Operating Budget (based on steady state?) developed by end of 2nd quarter. ➤ Draft Capital Budget developed by early 3rd quarter. • Approvals needed to finalize > Operating budget should then be adjusted to consider Capital impacts, and updated for any late price increases ➤ Budgets finalized and approved by mid 4th Quarter.

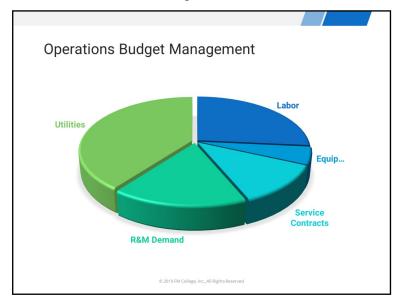


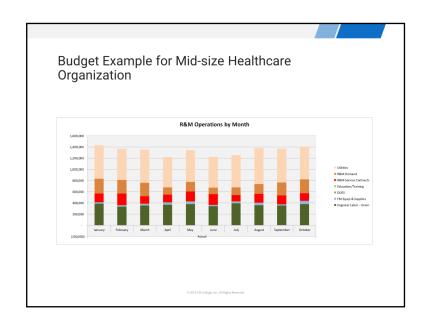


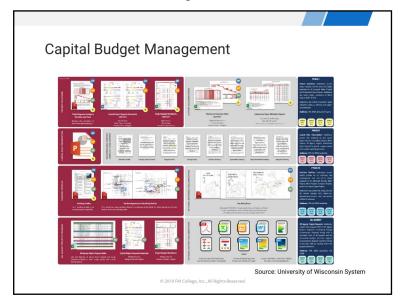


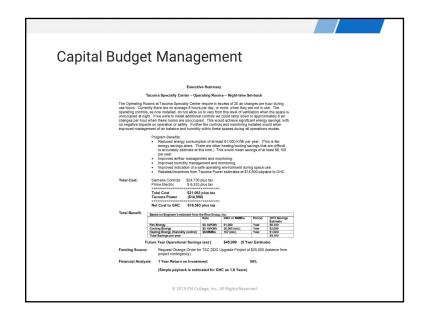
Management

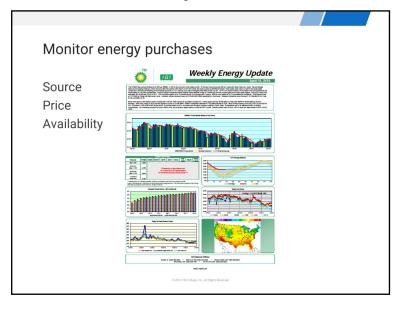
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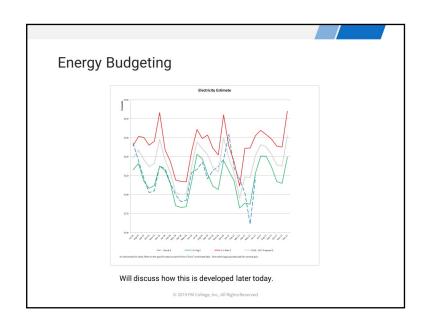


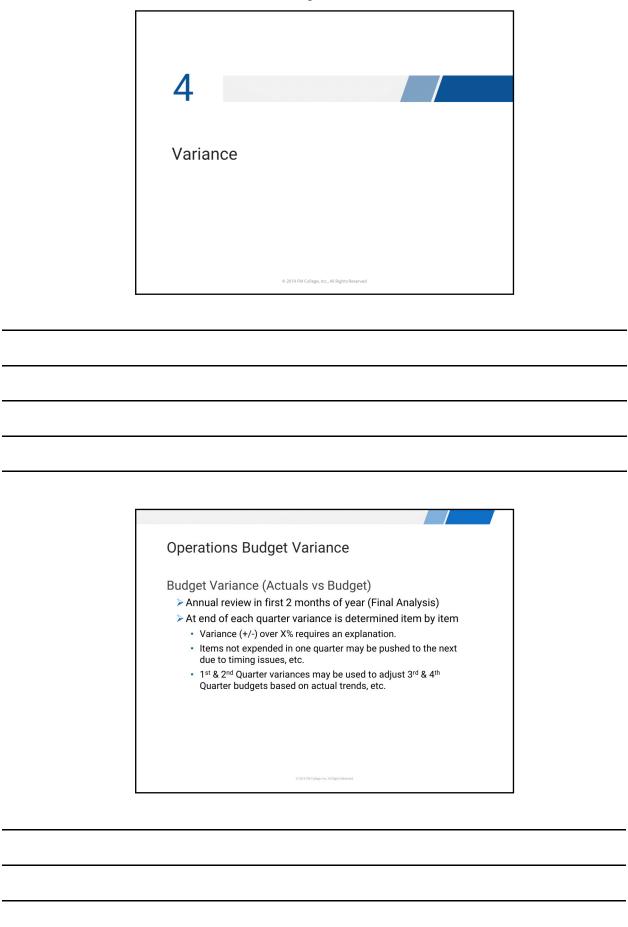












Operations Budget Variance

- > Maintenance project delays (contracted work)
- > Employee Position vacancies
- Overtime
 - Some may be scheduled for after-hours coverage
 - Staffing shortages
 - · Urgent repairs
- > Extreme weather (i.e. snow removal costs had to predict and budget)
- > Utility impacts from long-term weather patterns
- > Vendor performance issues

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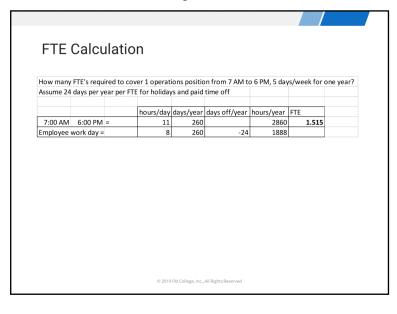
Capital

- ➤ Construction contract issues
- ➤ Significant changes to design
- Scope creep
- ➤ Delays (access, permitting, staffing, etc.)
- Labor/material costs
- > Availability due to project competition

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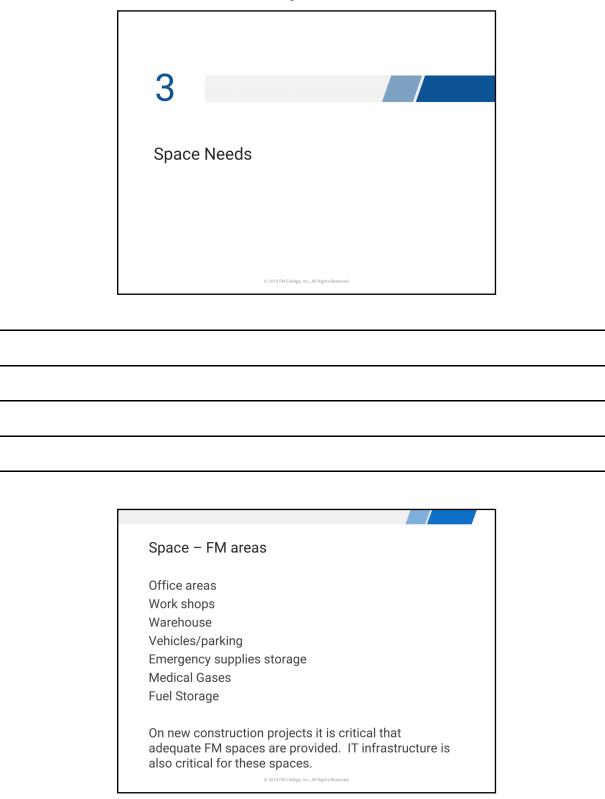


T
Staffing Needs



Justification for Additional Position Currently an employee is working 55 hours per week to cover required work. What is this cost in terms of an FTE? Assume 24 days/year holidays and paid time off. Overtime is equal to 1.5 times regular rate of pay. hours/day days/year days off/year hours/year FTE straight time 1888 260 -24 0.620 260 1170 overtime 4.5 55-40=15 15/5=3 3*1.5=4.5 A contractor charges \$150/hour for electrical work We can hire an electrician as an employee for \$50/hr. Assume 24 days per year per FTE for holidays and paid time off? What is ther break even point for hiring the electrician in contractor hours? Hours Wage 1888 \$ 50.00 \$94,400.00 FTE Cost/year Contractor Hours/year **629.3** \$ 150.00 © 2019 FM College, Inc., All Rights Reserved

Supply Needs Supplies Needed > Scheduled Maintenance Supplies require only a minimum stock. Supplies can be ordered when tasks are scheduled. > Emergency Repair Parts are a critical stock item for all highrisk equipment. Also emergency repair tools. > Stocking levels should be based on equipment criticality, redundancy, and availability lead time. > Spares and tools should be included in CMMS (i.e. stores inventory)



Space Terminology

- > Assignable Square Feet
 - A term used to describe areas that may be occupied and is acceptable for a designated purpose or function. It does not include walls, stairways, corridors, restrooms, parking facilities or mechanical space.
- > Area/Gross Square Footage (GSF)
 - A unit of measure representing the cumulative total of an organization's building(s) inclusive of all floors to the outside faces of exterior walls. Defined as the sum of the floor areas on all levels of a building that are totally enclosed within the building.
- ➤ Building Core and Service Area
 - Defined as the floor area of a facility, which is necessary for the operation of the facility and is not available for general occupancy.

Source: Asset Lifecycle Model for Total Cost of Ownership Management

Space Terminology

- ➤ Common Support Areas
 - Facility assignable area includes the area devoted to common support services. Common support area is the portion of the facility usable area not attributed to any one occupant but provides support for several or all occupant groups.
- > Facility Assignable Area
 - Calculated by measuring the portions of the floor used to house personnel, furniture, support areas and common support areas.
- > Facility Interior Gross Area
 - Defined as the building exterior minus the thickness of the exterior walls.
- ➤ Facility Rentable Area
 - Calculated by subtracting major vertical penetrations, interior parking space and void areas from facility interior gross area.

Source: Asset Lifecycle Model for Total Cost of Ownership Management © 2019 FM College, Inc., All Rights Reserved

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Space Terminology

- > Facility Usable Area
 - Calculated by subtracting the primary circulation and the building core and service areas from the facility rentable area. It is area that can be assigned to occupant groups.
- ➤ Primary Circulation
 - Defined as the portion of a building that is a public corridor or lobby.
- ➤ Secondary Circulation
 - Defined as the portion of a building or floor required for access to some subdivision of space that is not defined as primary circulation.

Source: Asset Lifecycle Model for Total Cost of Ownership Management

4

Outside Contractor Needs

Contracted Services

- Straight time or overtime? Could work be done on shift differential?
- > Travel time
- > Truck charges
- > Markup on parts, materials and equipment
- ➤ Wait time (if meeting your staff or security)
- > Coordination with other contractors
- > Documentation (paper on site & electronic to office?)
- > Warranty on work
- ➤ Liability for damages/injury

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Contracted Repairs

As on previous slide, plus:

- ➤ Guaranteed response time
- ➤ Emergency call response

Who are your back-up contractor/vendors if primary is unavailable (emergencies, disasters, etc.)?

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THANK YOU