

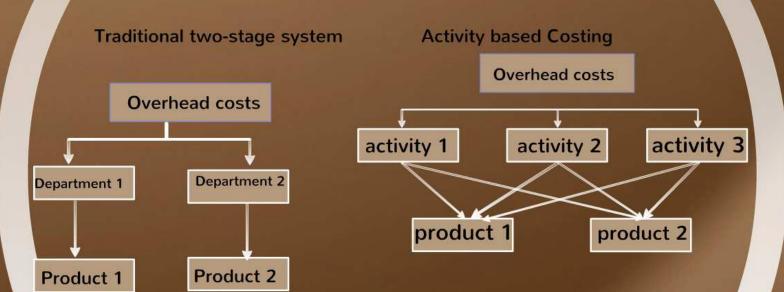
ACTIVITY BASED COSTING Joko Gunawan 5677167936



discuss the allocation of roommate. th Care ctivities st drivers Study Objectives Recognize the difference between traditional costing and activity based costing · Identify the steps in the development of an activity based costing system Example Cases to cation



## The difference





## STEPS ABC

- Study process and costs
- Identify activities
- Identify traceable costs
- Assigning remaining costs to activities
- Determine per-activity allocation rates
- Apply costs to objects





### **Identify activities**

- Unit level activities: activities to product every one unit product. ex: 30000 baht for machines related to utilities, 10000 baht for calibration, 10000 baht to other costs of other units
- Batch-level activities: activities which are implemented every time of a batch process without paying attention to how many units in batch to be produced. ex: activity of purchasing order, setup machine.
- Product-level activities: related to specific product, no matter the volume of production. Ex) product design and marketing
- Facility-level activity product: activities without looking at who customers are, how much batch produced. it includes factory depreciation, security, landscaping, providing computer networking, etc



## Identify traceable costs

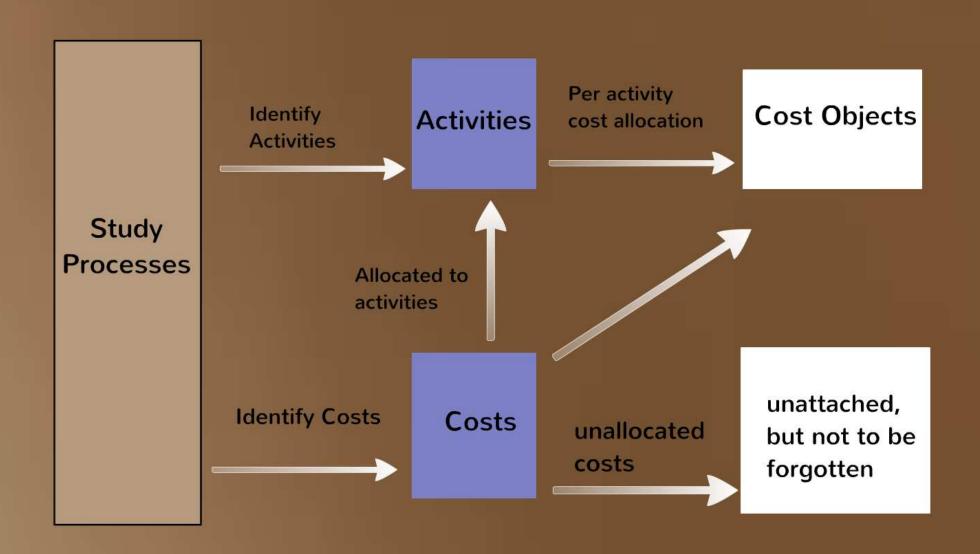
 Ex) Direct material and direct labor in and end product

Costs are assigned to a related activity cost pool



## Assigning remaining costs to activities

- Ex) the costs of an industrial engineering group that just sets up machines would be assigned to the machine set-up activity, which is then reallocated to products
- Some costs may remain unallocated
   However, these should not be ignored

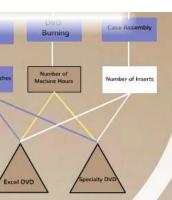




# Step ABC in Health Care Organization:

- Identifying the major activities
- Assigning costs to cost pools/cost centers for each activity
- Definition of activity cost drivers
- Assigning the costs of activities to products





Example Traditional Costing System Versus an ABC System

Three roommates began sharing the costs (12000 baht per month) equally but were not participating in the activities of living there equally: eating, watching TV, and surfing the internet. The roommates called a meeting to discuss the allocation of the costs to each roommate.



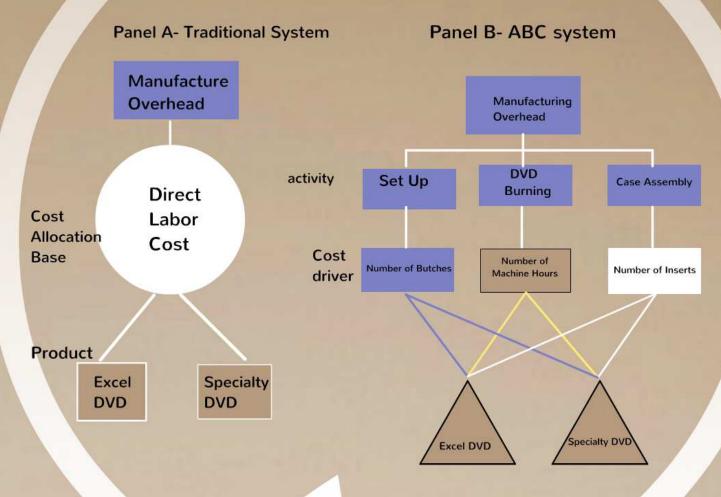


	Pink	Lee	Huong
More-refined cost allocation system			
Rent and utilities	2500B	2500B	2500B
Cable TV		900B	-
High-Speed Internet Access	500B	500B	500B
Groceries	600B	1300B	200B
Total costs allocated	3600B	5200B	3200B
Original cost allocation system	4000B	4000B	4000B
Difference	400B	1200B	800B

ABC: allocates cost based on the activity that causes the cost; goal is to allocate cost more accurately to jobs to get a clearer picture of what each product costs to manufacture; helps managers make better decisions



# the other example DVD Manufacturer





Ngong & Chan are college friends planning a skiing trip to Aspen before the New Year. They estimated the following costs for the trip:

Estimated	timated Activit		allocation
Costs		Chan	Ngong
Food \$ 600	Pounds of Food eaten	20	30 =
Skiing 210	# of lift tickets	3	0
Lodging 400 \$1.210	# of nights	2	2

Chan suggests that the costs be shared equally. Calculate the amount each person would pay. \$ 1.210/ 2 people = \$605 each

Ngong does not like the idea because she plans to stay in the room rather than ski. Ngong suggests that each type of cost be allocated to each person based on the cost driver listed above. Using the allocation for each person, calculate the amount that each person would pay based on his own consumption of the activity

#### 1) Calculate rates

Food: \$600/ 50 lbs = \$12 /lb Ski: \$210/3 = \$70/ticket

Lodging: \$400/ 4 nights = \$100/night

#### 2) Allocate costs:

Chan	Ngong
Food: \$12 x 20 = \$240	\$12 x 30 = \$360
Ski : \$70 x 3 = \$210	$$70 \times 0 = $0$
Lodging: \$100 x 2 = \$200	\$100 x 2 = \$200

### the Advantages of ABC System

- to repair the quality of decision making
- to provide information based on activities
- to decrease overhead costs
- to decrease activity which are not giving added value
- · the relevant cost estimation





## Disadvantages

- Time consuming
- Costly
- Control to unallocated costs is not clear
- Some allocation costs are arbitrary



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