Asset Classification, Depreciation, Sale/Exchange of Assets

### Types (classifications) of Assets:

- 1) Current Assets short lived assets used in the operations of a business
- 2) Plant Assets long lived tangible assets used in the operations of a business
- 3) Long Term Investment long lived tangible assets held for investment purposes
- 4) Intangible Assets assets with no physical form but the special rights they have give them value

#### **Cost of a Plant Assets:**

Costs assigned to a plant asset equal the sum of all costs incurred to bring the asset to its intended purpose minus all discounts received.

#### Land Costs include

Original purchase price - Back property taxes

Commissions - grading and clearing the land

Survey fees - demolishing or removing of buildings

Legal fees

#### Land Improvements costs include

Fencing costs - Lighting Paving driveways - Signs

Sprinkler systems

## Buildings cost include

Original purchase price - Building permits Commissions - Contractor 's charges

Sales and other taxes - Materials, labor, and overhead

Repairs and reno vations - Capitalized interest

Architectural fees

### Machinery and Equipment cost include

Original purchase price - Commissions
Transportation charges - Installation charges

Insurance while in transit
- Testing costs (before placed in service)
Sales and other taxes
- Repairs (before placed in service)

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## Assets and their related expense account:

Asset	Related Expense Account	
Plant Assets		
Land	None	
Buildings, Machinery, Equipment		
Furniture, Land Improvements	Depreciation Expense	
Natural Resources	Depletion Expense	
Intangible Assets	Amortization Expense	
Fumiture, Land Improvements Natural Resources	Depletion Expense	

## **Construction in Progress:**

Construction in progress is an asset that the company is constructing for its own use in the business.

## **Capitalizing Interest:**

Interest expenses in connection with the construction of an asset is to be capitalized as part of the cost of that asset.

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## Incurring construction costs:

Building (or Construction in Progress)	\$xxxxx	
Cash (or Notes Payable)		\$xxxxx

#### Accrued Interest:

Building (or Construction in Progress)	Capitalized Interest
Interest Expense	Difference (if any)
Interest Payable	Total accrued interest

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### Lump sum purchase of assets:

Costs is divided among the assets according to their relative sales (market) values, if the costs have not already been divided in the sales agreement.

			Total		Per cent age		Total		
Allocated					_				
Asset	Market Value		Market Valu	e	of MV		Purchase Pric	ce	Cost
Asset 1	\$xxxx	÷	Total MV	=	XX%	*	Total price	=	\$xxxx
Asset 2	\$xxxx	÷	Total MV	=	XX%	*	Total price	=	\$xxxx
Asset 3	\$xxxx	÷	Total MV	=	$XX^{0}/_{0}$	*	Total price	=	\$xxxx
	Total MV							Tota	l cost

### **Capital vs Revenue Expenditures:**

Capital Expenditures - increases the capacity or efficiency of an asset or extends its useful life Expenditures are debited to the asset s account

Revenue Expenditures - merely maintain an asset or restores the asset to working order Expenditures are debited to an expense account

Examples of the difference between Capital and Revenue Expenditures for a delivery truck:

Capital	Revenue
Major engine overhaul	Repair of transmission or other
	mechanism
Modification of body for (	Oil change, lube, etc
new use of truck	Replacement tires, windshield
Additions to storage	Paint job
capacity of the truck	

## **Depreciation:**

Useful life - length of service that a business expects to get from an asset may be expressed in terms of years, units, miles or any other measurement

Residual value - expected cash value of an asset at the end of its expected useful life

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## **Depreciation Methods:**

Straight line method:

*Units of production method:* 

Depreciation for the year = Depreciation per unit \* Units produced

Double declining balance method:

Step 1: Find Straight line (SL) rate = 1 / Useful life

Step 2: Find Double declining balance (DDB) rate = SL rate \* 2

Step 3: Find depreciation for the year = Beginning Book Value \* DDB rate

Depreciation taken cannot bring the book value below the residual value in any given year. Normally the depreciation will have to be limited in the assets last couple of years of service.

#### **Disposal of Plant Assets:**

When fully depreciated:

Accumulated Depreciation - Asset Loss on disposal of asset Asset Total Depr. taken Residual Value

Original cost

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### **Disposal of Plant Assets:**

When not fully depreciated:

Accumulated Depreciation - Asset Loss on disposal of asset

Asset

Total Depr. taken Remaining Book Value

Original Cost

#### Sale of a Plant Asset:

(1) Calculate the depreciation for the year up to the time of sale

Depreciation Expense, Asset

Depr. for the year \* (# months/12)

Accumulated Depreciation, Asset

Depr. for the year \* (# months/12)

(2) Determine the Gain or Loss on the sale

Cash received

\$xxxxx

Book value of asset

Original cost

\$xxxxx

Accum. Depr. Gain (Loss) on sale

 $\frac{(xxxxx)}{\$ xxxx}$ 

(3) Journal entry to record the sale

Cash

Sales Price

Accumulated Depr, Asset

Total Depr. taken

Asset Gain on sale of asset Original Cost Difference

If there was a loss on the sale of the asset, then there would be a debit to Loss on sale of asset, account rather than a credit to 'Gain on sale of asset,'

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### **Exchanging of Plant Assets:**

Asset Cost of New asset

Accumulated Depr, Asset Total depr. taken on old asset

Loss on exchange of asset Difference

Asset Cost of Old asset

Cash paid

If there is a gain, the difference would be credited to "Gain on exchange of asset, rather than shown as a debit to "Loss on exchange of asset."

#### **Depletion of Natural Resources:**

Depletion is calculated using the units of production method.

Cost - Residual Value

Depletion per unit =

Est. total units of natural resource

Journal entry:

Depletion Expense Depletion per unit \* Units

Accumulated Depletion Depletion per unit \* Units

#### **Amortization of Intangible Assets:**

Amortization - is computed on a straight line basis

- is charged directly against the asset rather than to an accumulated amortization account

- intangible assets include: patents, copyrights, trademarks, goodwill

Journal Entry

Amortization Expense - Intangible asset Original cost / useful life

Intangible asset Original cost / useful life

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