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A Digital Learning Platform for Generation Z: Passport to IFRS®

IAS[®] Standard 16 Property, Plant and Equipment









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OBJECTIVE AND SCOPE



DEFINITIONS



the assets that the entity expects to use for more than one reporting period for the purpose of: production or delivery of goods and services; rental, etc.;

the amount of cash paid or the fair value of the other consideration given to acquire the asset

the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date

the amount of the asset in the statement of financial position, less accumulated depreciation and impairment losses

DEFINITIONS



DEFINITIONS



RECOGNITION

Conditions for recognition

expect to receive economic benefits from that asset

the price of that asset can be reliably determined

and

SPECIFIC CASE ABOUT RECOGNITION:

PURCHASE OF SEVERAL ASSETS AT A TOTAL PRICE

EXAMPLE: PURCHASE OF SEVERAL ASSETS

<u>*Case:*</u> Purchased garages, land and trucks for a total of CU300,000. Asset market price:

- **√** garages: CU140,000
- **√** land: CU110,000
- **v** trucks: CU100,000

<u>Question:</u> At what value are property, plant and equipment initially recognised?

Solution:

 $\mathbf{1.Relative \ share} = \frac{Fair \ value \ of \ the \ asset}{Total \ fair \ value \ of \ all \ assets}$

Garages = $\frac{CU140,000}{CU350,000}$ = 0.4

Land = $\frac{CU110,000}{CU350,000}$ = 0.31

 $Trucks = \frac{CU100,000}{CU350,000} = 0.29$

2.Allocation of the total market price between assets

Garages = CU300,000 ×0.4 = CU120,000 Land = CU300,000 ×0.31 = CU93,000 Trucks = CU300,000 ×0.29 = CU87,000

MEASUREMENT

<u>Question:</u> At what value are property, plant and equipment initially valued?

Initial measurement at cost

What does the cost include?

COST

Purchase price less trade discounts

Duties and taxes that the entity cannot recover

Costs directly related to delivery: expenses for salaries and insurances costs for site preparation; initial costs for delivery, assembly and installation; costs of testing the asset costs for consulting services

An estimate of the expected costs of dismantling the asset and rebuilding the site

EXAMPLE:

Calculation of the cost

<u>*Case*</u>: Alfa PLC is currently building a new head office.

| Purchase of land | CU210,000 |
|---|-----------|
| Stamp duty | CU8,300 |
| Site clearance | CU14,150 |
| Building materials | CU35,000 |
| Labour: | |
| - Builders | CU25,800 |
| - Site manager | CU8,300 |
| - Administrative manager | CU5,000 |
| Interest on a loan (taken out on the first day of | CU3,300 |
| construction to fund the building) | |
| General overheads | CU7,500 |

Question: What is the cost of the building?

Solution:

| Purchase of land | CU210,000 | Capitalise |
|--|-----------|--------------|
| Stamp duty | CU8,300 | Capitalise |
| Site clearance | CU14,150 | Capitalise |
| Building materials | CU35,000 | Capitalise |
| Labour: | | |
| - Builders | CU25,800 | Capitalise |
| - Site manager | CU8,300 | Capitalise |
| - Administrative manager | CU5,000 | Expense |
| Interest on a loan (taken out on the first day | CU3,300 | Capitalise * |
| of construction to fund the building) | | |
| | | |
| General overheads | CU7,500 | Expense |

Cost = CU210,000 + CU8,300 + CU14,150 + CU35,000 + CU25,800 + CU8,300 + CU3,300 = CU304,850

^{*} See IAS 23 Borrowing costs, because there are qualifying conditions and other considerations that may not allow that amount be capitalised in full.

Measurement after recognition



Determining the value after recognition according to the cost model



Determining the value after recognition according to the revaluation model



Example:

Measurement after recognition using revaluation model

A building, acquired on 1 January 2005:

| Cost on 1 January 2005 | CU160,000 |
|------------------------------------|-----------|
| Useful life | 50 years |
| New fair value on 31 December 2020 | CU350,000 |

Question:

How will the result of the revaluation be accounted for and what will be the effect on Alpha's accounts for the year ended 31 December 2020?

Solution:

The Carrying amount at 31 December 2020 is: Cost (Gross carrying amount): CU160,000 Accumulated depreciation = $\frac{CU 160,000}{50} = CU 3,200 \times 16 = CU 51,200$

Net carrying amount = CU 160,000 - CU 51,200 = CU 108,800 The fair value is CU350,000. Result of the revaluation = CU 350,000 - CU 108,800 = CU 241,200

| Dr. Property, plant and equipment | CU190,000 |
|-----------------------------------|-----------|
| Dr. Accumulated depreciation | CU 51,200 |
| Cr. Revaluation Reserve | CU241,200 |

STATEMENT OF ACCOUNTS:

Accumulated Depreciation

| 2. Increase in depreciation after revaluation | CU51,200 | Before revaluation | CU51,200 | 1. |
|---|----------|---------------------------------|----------|----|
| • | | Balance after revaluation: CU 0 | | |

Property, Plant and Equipment

| 1. Acquisition cost | |
|-------------------------------|-----------|
| of the machine | CU160,000 |
| 2. Increase in gross carrying | amount |
| after revaluation | CU190,000 |
| | |
| Balance after revaluation: | CU350,000 |

Revaluation Reserve

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| Formation of a revaluation reserve CU241,200 1. |
|---|
| Balance after revaluation: CU241,200 |

DEPRECIATION

Basic rules

Depreciation of assets begins on the date on which they are available for use

Depreciation to be discontinued on the earlier of the two dates:

 V when the entity has determined the relevant asset for sale;

V when the asset is derecognised from the assets of the entity.

DEPRECIATION METHODS



Example:

Diminishing balance method

Data:

Cost of asset: CU100,000 Useful life: 5 years Residual value of the asset: CU11,000

<u>Question:</u> <u>What is the annual depreciation during the useful life of the</u> <u>asset?</u>

Solution:

1. Determination of the depreciable amount of the asset: Depreciation amount= *CU*100,000 - *CU*11,000 = *CU*89,000

2. Determination of the depreciation rate:

 $Depreciation \ rate = \frac{100}{Useful \ life \ of \ assets \ (years)} = result \ \times \ C \ (in \ percent)$

3. Preparation of the depreciation plan:

| Year of depreciation | Depreciation rate (%) | Annual depreciation = depreciable amount* depreciation rate | Depreciable amount | Carrying amount |
|-------------------------|--------------------------|--|-----------------------|-----------------|
| First year | 40 | 89.000*40 = 35,600 | 53,400 | 64,400 |
| Second year | 40 | 53.400*40 = 21,360 | 32,040 | 43,040 |
| Third year | 40 | 32.040*40 = 12,816 | 19,224 | 30,224 |
| Fourth year | 50 | 19.224 *50 = 9,612 | 19,224 | 20,612 |
| Fifth year | 50 | 19.224 *50 = 9,612 | 0 | 11,000 |
| | | 89,000 | | |

Accounting for the depreciation of the asset for the first year

Dr. Depreciation expense 35,600

Cr. Accumulated depreciation 35,600

Example:

Depreciation method,

according to the quantity of production

Case:

Cost of the equipment: CU40,000 Useful life of the equipment: 80,000 units Expected volume of output during the useful life of the asset:

- First year 35,000 units
- Second year 21,000 units
- Third year 10,000 units
- Fourth year 8,000 units
- Fifth year <u>6,000 units</u>
- Total quality: 80,000 units

Question: What are the depreciation costs in each year of use of the <u>asset</u>

Solution:

1. Determination of the depreciation rate:

Depreciation rate = $\frac{depreciation \ amount}{volume \ of \ production \ output} = \frac{CU40,000}{80,000 units} =$

CU0, 5 per unit

2. Preparation of depreciation plan

| Year of | Manufactured production - | Depreciation rate (CU | Depreciation expense (CU) |
|--------------|---------------------------|-----------------------|---------------------------|
| depreciation | units | per unit) | |
| First year | 35,000 | 0,5 | 35,000x0,5 =17,500 |
| Second year | 21,000 | 0,5 | 21,000x0,5 =10,500 |
| Third year | 10,000 | 0,5 | 10,000x0,5 =5,000 |
| Fourth year | 8,000 | 0,5 | 8,000x0,5 =4,000 |
| Fifth year | 6,000 | 0,5 | 6,000x0,5 =3,000 |
| TOTAL | 80,000 | | 40,000 |

DERECOGNITION

When assets are derecognised?



Accounting for the asset derecognition process:

1. Dr. Accumulated depreciation Cr. Property, plant and equipment

2. Dr. Revaluation reserve Cr. Retained earnings

3. Dr. Sales revenue Cr. Property, plant and equipment

DISCLOSURE

Mandatory disclosures

- The valuation bases used for the assets;
- depreciation policy;
- The reconciliation of the carrying amount of the respective asset at the beginning and at the end of the reporting period.

• The amount of capitalized costs in the carrying amount of the asset upon its acquisition (construction);

• The amount of contractual obligations related to the acquisition of assets; and

• Circumstances related to the ownership of the assets;

• The amount of compensation from other entities and persons for losses and impairments related to assets.





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