

# **SLFRS 16**

# Chartered Accountancy Corporate Level Financial Reporting and Governance (FRG)

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#### Lease Agreement Under SLFRS 16 - Para 9



SLFRS 16

Right to Control the use of IDENTIFIED ASSET

For a *period of time* in exchange of **CONSIDERATION** 

#### Question 01

Blackcutt has outsourced its waste collection to a private sector provider called Waste and Co and pays an annual amount to Waste and Co for its services. Waste and Co purchases the vehicles and uses them exclusively for Blackcutt's waste collection. The vehicles are painted with the Blackcutt local government organisation name and colours. Blackcutt can use the vehicles and the vehicles are used for waste collection for nearly all of the asset's life. If a vehicle breaks down or no longer must functions, Waste and Co provide replacement vehicles fitted with the same waste disposal containers and equipment and painted with the local government organisations name and colours.

(6 marks)

#### Lease

The issue here is whether the arrangement with the private sector provider Waste and Co is, or contains, a lease, even if it does not take the legal form of a lease. The **substance of the arrangement should be considered** in connection with the IFRS 16 *Leases*. Key factors to consider are as follows.

- (i) Is there an identifiable asset?
- (ii) Does the customer have the right to **obtain substantially all the economic benefits** from use of the asset throughout the period of use?
- (iii) Who has the right to direct how and for what purpose the asset is used?
- (iv) Does the customer **have the right to operate the asset throughout the period of use** without the supplier having the right to change those operating instructions?

The answer in each case is yes.

- (i) The vans are an identifiable asset. Although Waste and Co can substitute another vehicle if one of the existing vehicles needs repairing or no longer works, this substitution right is not substantive because of the significant costs involved in fitting out the vehicle for use by Blackcutt.
- (ii) Blackcutt can use the vehicles and uses them exclusively for waste collection for nearly all their life. It therefore has a right to obtain substantially all the economic benefits from the use of the asset.
- (iii) Blackcutt controls the vehicles, since it stipulates how they are painted, and ostensibly owns them because they must be painted with Blackcutt's name. It therefore has the right to direct how and for what purpose the asset is used.
- (iv) As indicated in (ii) above, Blackcutt has the right to operate the asset throughout the period of use, although it has outsourced the driving to Waste and Co.

<u>The arrangement is a lease</u>. A right-of-use asset should be recorded, and a lease liability set up, equal to the present value of the future lease payments. The service element relating to the waste collection must be considered as a separate component and charged to profit or loss.

Lessee accounting

Lessors accounting Sale & Lease back

01. Application of This standard Para 05

02. Initial measurement

ROUA

Para 23, 24

Lease Liability Para 26

03. Subsequent Measurement

ROUA

Para 29

Lease Liability Para 36

04. Re- Assessment & Modification

Re-assessment Para 39,40

Modification

Para 44



## **02.Initial measurement**

#### Example: Initial measurement of a lease

X plc enters into a lease. The following information is relevant:

X Plc must pay five annual rentals of \$100,000 in arrears.

X Plc must also guarantee the residual value of the asset at the end of the lease term to be \$40,000.

X Plc incurs initial direct costs of \$5,000.

The interest rate implicit in the lease is 8%.

#### The double entries to account for this lease are as follows:

| Dr         |                    |         | Cr      |
|------------|--------------------|---------|---------|
| On initial | recognition        |         |         |
|            | Right of use asset | 426,494 |         |
|            | Lease liability    |         | 426,494 |
|            | Right of use asset | 5,000   |         |
|            | Cash               |         | 5,000   |

## 03.Subsequent measurement

#### Example: Subsequent measurement of the asset

X Plc enters into a 5 year lease of a machine on 1 January Year 1.

The lease liability at the commencement of the lease was \$426,494 and X Plc incurred initial direct costs of \$5,000 when arranging the lease.

X Plc has guaranteed the residual value of the asset at the end of the lease term at \$40,000.

The estimated useful life of the asset is 5 years.

The accounting policy for similar owned machines is to depreciate them over their useful life on a straight line basis.

## Annual depreciation charge:

| S        |
|----------|
| 426,494  |
| 5,000    |
| 431,494  |
| (40,000) |
| 391,494  |
| 5 years  |
| 78,299   |
|          |

## 03.Subsequent measurement

#### Subsequent measurement of the liability

During each year, the lessee makes one or more lease payments. The payment is recorded in the ledger account as follows.

Illustration: Lease payment

|                 | Deb |        |
|-----------------|-----|--------|
|                 | it  | Credit |
| Lease liability | X   |        |
| Cash/bank       |     | X      |

A lease liability is measured as follows at each reporting date:

Illustration: Subsequent measurement of lease liability

|   | -   |
|---|-----|
| Amount borrowed at the start of the lease (the amount recognised on initial recognition of the lease) | х   |
| Plus: Interest accrued  | X   |
| Minus: Repayments (lease payments)  | (X) |
| Repayment of loan principal   | (X) |
| Adjustment on remeasurement of the liability (see later)  | X   |
| Amount owed now.  | X   |

#### Example: Allocation of the finance charge

X Plc enters into a 5 year lease of a machine on 1 January Year 1.

The lease liability at the commencement of the lease was \$426,494 and X Plc incurred initial direct costs of \$5,000 when arranging the lease.

X Plc has guaranteed the residual value of the asset at the end of the lease term at \$40,000.

The interest rate implicit in the lease is 8%.

#### Lease liability:

| Year | Opening<br>liability | Interest (8%) | Lease payments | Closing liability |
|------|----------------------|---------------|----------------|-------------------|
| 1    | 426,494              | 34,120        | (100,000)      | 360,614           |
| 2    | 360,614              | 28,849        | (100,000)      | 289,463           |
| 3    | 289,463              | 23,157        | (100,000)      | 212,620           |
| 4    | 212,620              | 17,010        | (100,000)      | 129,630           |
| 5    | 129,630              | 10,370        | (140,000)      | 0                 |
|      | <del>:</del>         | 113,506       |                |                   |

### Example: Total finance charge

X Plc enters into a 5 year lease of a machine on 1 January Year 1.

The lease liability at the commencement of the lease was \$426,494 and X Plc incurred initial direct costs of \$5,000 when arranging the lease.

X Plc has guaranteed the residual value of the asset at the end of the lease term at \$40,000.

#### Total finance charge

| Lessee's lease payments:        | S          |
|---------------------------------|------------|
| Annual rentals (5 × 100,000)    | 500,000    |
| Guaranteed residual value       | 40,000     |
|                                 | 540,000    |
| Amount on initial recognition   | (426,494)* |
| Total finance charge (interest) | 113,506    |
|                                 |            |

<sup>\*</sup> This is the amount of the liability. The asset is recognised at \$431,494.

## The final payment

In the above example the final payment by the lessee is \$140,000. This is in fact made up of two amounts, the final rental of \$100,000 and the guaranteed residual value of \$40,000.

It is worth conside<mark>ring the</mark> payment in respect of the guaranteed residual value in a little more detail.

At the end of the lease the asset that is the subject of the lease is transferred back to the lessor. It has been depreciated down to its estimated residual value of \$40,000.

The transfer is recorded as follows:

#### Example: Final payment in respect of the guaranteed residual value

| Debit              | Credit |
|--------------------|--------|
| Lease liability    | 40,000 |
| Right-of-use asset | 40,000 |

In other words the \$40,000 part of the final year payment to the lessor of \$140,000 is not cash but the transfer of the asset.

## Example (continued): Final payment in respect of the guaranteed residual value

The asset has a carrying amount of \$40,000 at the end of the lease but is only worth \$35,000.

The lessee would make the following double entries.

| Write down the asset                         | Debit  | Credit |
|--|--------|--------|
| Statement of comprehensive income            | 5,000  |        |
| Asset under lease                            |        | 5,000  |
| Pay the lessor the guaranteed residual value |        |        |
| Lease liability                              | 40,000 |        |
| Asset held under lease                       |        | 35,000 |
| Cash/bank                                    |        | 5,000  |

## Example: Split of current and non-current liability at the end of year 1

| Year      | Opening balance  | Lease payments | Interest       | Capital repayments            | Closing balance                   |
|-----------|------------------|----------------|----------------|-------------------------------|-----------------------------------|
| 1         | 426,494          | (100,000)      | 34,120         | (65,880)                      | 360,614                           |
| 2         | 360,614          | (100,000)      | 28,849         | (71,151)                      | 289,463                           |
|           |                  |                |                | This is the current liability | This is the non-current liability |
| Liabilit  | y:               |                |                | s                             |                                   |
| Current   | liability        |                |                | 71,151                        |                                   |
| Non-cu    | rrent liability  |                |                | 289,463                       |                                   |
| Total lie | ability (for pro | of             | ¥ <del>.</del> | 360,614                       |                                   |



## Lease payments made in advance

An earlier section explained that if two leases are identical except that the rentals are in arrears for one and in advance for the other, the interest rates implicit in each will be higher for the lease for which the payments are in advance. This is because although the total lease payments are the same, if payment is in advance they will be received by the lessor (paid by the lessee) over a shorter period.

The overall result should be that the initial right of use asset and the total finance charge is the same.

## Example: Initial measurement of a lease (payments in advance)

X plc enters into a lease. The following information is relevant:

X Plc must pay five annual rentals of \$100,000 in advance.

X Plc must also guarantee the residual value of the asset at the end of the lease term to be \$40,000.

X Plc incurs initial direct costs of \$5,000.

The interest rate implicit in the lease is 12.37%.

#### The initial measurement of the liability is as follows:

|      | Cash    | Discount<br>factor at | Present<br>value at |
|------|---------|-----------------------|---------------------|
| Year | flow    | 12.37%                | 12.37%              |
| 4    | 100,000 | 3.014                 | 301,404             |
| 4    | 40,000  | 0.627                 | 25,090              |
|      |         |                       | 326,494             |

| Double entry on initial recognition Dr        |         | Cr      |
|---|---------|---------|
| Right of use asset (as before in section 2.3) | 431,494 |         |
| Cash (first rental)                           |         | 100,000 |
| Cash (initial direct costs)                   |         | 5,000   |
| Lease liability                               |         | 326,494 |

| Finance charge                      | Payments in advance | Payments in arrears (see section 2.3) |
|-------------------------------------|---------------------|---------------------------------------|
| Lessee's lease payments:            | \$                  | \$                                    |
| Annual rentals $(4 \times 100,000)$ | 400,000             |                                       |
| Annual rentals (5 × 100,000)        |                     | 500,000                               |
| Guaranteed residual value           | 40,000              | 40,000                                |
|                                     | 440,000             | 540,000                               |
| Amount on initial recognition       | (326,494)           | (426,494)                             |
| Total finance charge (interest)     | 113,506             | 113,506                               |
|                                     |                     |                                       |

The finance charge allocation is as follows:

|          | Opening   | Lease     | Liability<br>after day 1 | Interest | Closing   |
|----------|-----------|-----------|--------------------------|----------|-----------|
| Yea<br>r | liability | payment   | payment                  | (12.37%) | liability |
| 1        | 326,494   |           | 326,494                  | 40,387   | 366,881   |
| 2        | 366,881   | (100,000) | 266,881                  | 33,013   | 299,895   |
| 3        | 299,895   | (100,000) | 199,895                  | 24,727   | 224,621   |
| 4        | 224,621   | (100,000) | 124,621                  | 15,379   | 140,000   |
| 5        | 140,000   | (140,000) | 0                        | 0        |           |

In the above example, the lease payments are made at the start of each year. The first lease payment has not been included in the initial measurement of the lease liability so there is lease payment shown in year 1.

The lease payment shown in year 2 is on the first day of that year. Therefore, it is deducted from the liability to give an amount upon which interest is charged going forward.

## Example: Current and non-current liability

| Year                               | Opening<br>liability | Lease<br>payment              | Liability after day 1 payment | Interest<br>(12.37%)                       | Closing<br>liability |
|------------------------------------|----------------------|-------------------------------|-------------------------------|--|----------------------|
| 1                                  | 326,494              | \$ <u>=</u>                   | 326,494                       | 40,387                                     | 366,881              |
| 2                                  | 366,881              | (100,000)                     | 266,881                       |  |                      |
|                                    | 22                   |                               | 1                             | <u> </u>                                   | 1                    |
|                                    |                      | Total<br>current<br>liability | Non-<br>current<br>liability  | Current<br>liability<br>due to<br>interest | Total<br>liability   |
| Liability:                         |                      |                               |                               | S  |                      |
| Current lia                        | bilities             |                               | -                             |  |                      |
| Interest exp                       | pense                |                               |                               | 40,387                                     |                      |
| Capital element of lease liability |                      |                               |                               | 59,613                                     |                      |
|                                    |                      |                               | ## T                          | 100,000                                    |                      |
| Non-curren                         | nt liability         |                               | 59                            | 266,881                                    |                      |
| Total liabil                       | lity (for proof)     |                               |                               | 366,881                                    |                      |

## Application of This standard - Para 05

#### Recognition exemption

A company can elect not to apply the lessee accounting rules to short-term leases (lease with a lease term of 12 months or less) and leases for assets of low value (e.g. lap-tops and mobile phones).

The election must be made by class of short term leases but may be made on an asset by asset basis for low value assets.

If such an election is made, the rental costs of the assets are recognised in profit or loss on a straight line basis or some other systematic basis if that gives a better reflection of the benefit arising from the asset.

#### Portfolio application

The rules in IFRS 16 set out the accounting rules for individual leases.

However, the rules may be applied to a portfolio of leases with similar characteristics. In other words, an entity can account for a number of separate leases as a single lease.

This is only allowed if there is a reasonable expectation that this would not cause the financial statements to differ materially from applying the rules to the individual leases within that portfolio.

## Re- Assessment & Modification

## Re-measuring the lease liability

Lease liabilities must be remeasured to reflect changes in circumstances.

Circumstances might change over the life of the lease leading to a change in the lease payments. For example, the lease term might change due to a reassessment of whether an option to extend or terminate a lease is made or lease payments might change following a rent review.

A lease liability is remeasured by discounting the revised lease payments:

using a revised discount rate when there is a change in the lease term or in the assessment of an option to purchase the underlying asset; or

by discounting the revised lease payments at the original rate when there is a change in the amounts expected to be payable under a residual value guarantee or in future lease payments resulting from a change in an index or a rate used to determine those payments (e.g. following a market rent review).

#### Example: Remeasuring the lease liability (change in lease term)

X Plc enters into a 5 year lease of a machine on 1 January Year 1.

The lease liability at the commencement of the lease was \$426,494.

X Plc incurred initial direct costs of \$5,000 when arranging the lease.

X Plc recognised a right of use asset at the commencement of the lease in the amount of \$431,494 (\$426,494 + \$5,000).

X Plc has guaranteed the residual value of the asset at the end of the lease term at \$40,000.

#### Further information

X Plc has an option to extend the lease term for a further three years at an annual rental of \$110,000.

At the commencement date, X Plc concluded that it was not reasonably certain to exercise the option so the lease term was determined to be 5 years.

X Plc would not have to guarantee a residual value if it were to exercise the option to extend the lease term.

#### End of Year 4

X plc's circumstances have changed and it is now reasonably certain that it will exercise the option to extend the lease (meeting the conditions in IFRS 16).

X Plc is unable to determine a revised interest rate implicit in the lease but its incremental borrowing rate is 9%.

#### Example (continued): Remeasuring the lease liability

The balances in X Plc's at the end of year 4 before the remeasurement of the liability are as follows:

#### Lease liability at year 4:

| Year            | Opening<br>liability  | Interest (8%) | Lease<br>payments | Closing<br>liability |
|-----------------|-----------------------|---------------|-------------------|----------------------|
| 1               | 426,494               | 34,120        | (100,000)         | 360,614              |
| 2               | 360,614               | 28,849        | (100,000)         | 289,463              |
| 3               | 289,463               | 23,157        | (100,000)         | 212,620              |
| 4               | 212,620               | 17,010        | (100,000)         | 129,630              |
| Right of use a  | asset at year 4       |               |                   | \$                   |
| Balance on in   | 431,494               |               |                   |                      |
| Less: 4 years   | depreciation          |               |                   |                      |
| (4 × ((\$431,49 | 94 – \$40,000) /5 yea | rs)           |                   | (313,195)            |
|                 |                       |               |                   | 118,299              |
|                 |                       |               |                   |                      |

## The lease liability is remeasured as follows:

| Years (from the end of | Namativa  | Cach flaw  | Discount<br>factor at   | Present<br>value at<br>9%   |
|------------------------|---|--|---|---|
| year 4)                |   | Cash now   | 970   | 970   |
| 1                      | original lease term   | 100,000  | 0.917   | 91,743  |
| of the on of the       |   | 8  |   | 250   |
| 6.4                    | lease   | 110,000  | 0.842   | 92,585  |
| of the<br>on of the    | lease   | 110,000  | 0.772   | 84,940  |
| of the                 |   | ,  |   |   |
| on of the              |   |  |   |   |
|                        | lease   | 110,000  | 0.708   | 77,927  |
|                        |   |  | _   | 347,195   |
|                        | (from the end of year 4)  1  of the on of the on of the on of the | (from the end of year 4) Narrative  1 Year 5 rental on the original lease term of the lease of t | (from the end of year 4) Narrative Cash flow  1 Year 5 rental on the original lease term 100,000 of the lease 110,000 of the lease 110,000 of the on of the lease 110,000 | (from the end of year 4) Narrative Cash flow 9%  1 Year 5 rental on the original lease term 100,000 0.917  of the lease 110,000 0.842  of the lease 110,000 0.772  of the on of the |

## Remeasurement at end of year 4

Carrying amount after adjustment

| Remeasured liability        | 347,195   |
|-----------------------------|-----------|
| Liability before adjustment | (129,630) |
| Remeasurement adjustment    | 217,565   |

#### This is achieved with the following double entry:

| This is achieved with the following double entry:           |         |         |
|---|---------|---------|
|   | Dr      | Cr      |
| Right of use asset  | 217,565 |         |
| Lease liability   |         | 217,565 |
| The right of use asset after this adjustment is as follows: |         |         |
|   |         | \$      |
| Carrying amount before adjustment                           |         | 118,299 |
| Adjustment  |         | 217,565 |

335,864

X plc would account for the lease over the next four years (the last year of the original term plus the three years of the extension) as follows:

## Lease liability over next 4 years

| Year  | Opening liability | Interest (9%) | Lease payments | Closing<br>liability |
|-------|-------------------|---------------|----------------|----------------------|
| 1 (5) | 347,195           | 31,248        | (100,000)      | 278,443              |
| 2 (6) | 278,443           | 25,060        | (110,000)      | 193,502              |
| 3 (7) | 193,502           | 17,415        | (110,000)      | 100,918              |
| 4 (8) | 100,918           | 9,083         | (110,000)      | 0                    |

## Right of use asset at end of next 4 years

|                                  | S         |
|----------------------------------|-----------|
| Carrying amount after adjustment | 335,864   |
| Depreciation in years (5 to 8)   |           |
| 4 × (335,864/4 years)            | (335,864) |
|                                  | nil       |

#### Lease modification

#### Definition: Lease modification

Lease modification: A change in the scope of a lease, or the consideration for a lease, that was not part of the original terms and conditions of the lease (for example, adding or terminating the right to use one or more underlying assets, or extending or shortening the contractual lease term).

Lease modification is different from the situations addressed by the previous section. A lease modification involves changes to the lease that were not part of the original terms and conditions of a lease.

#### Example: Lease modification

X Plc leases a building for an initial period of five years with an option to extend the lease for a further three years.

At the commencement date, X Plc concluded that it was not reasonably certain to exercise the option so the lease term was determined to be 5 years.

At the end of the fourth year of the lease X plc's circumstances have changed and it is now reasonably certain that it will exercise the option to extend the lease (meeting the conditions in IFRS 16).

X Plc must remeasure the lease liability but this is **not a lease modification** as it is a change that was part of the original terms and conditions of the lease.

#### Example: Lease modification

Y Plc leases a building for five years.

At the end of the fourth year of the lease X plc's circumstances have changed and it has contracted with the lessor to extend the lease for a further three years beyond the original lease term.

This is a lease modification as it is a change that was not part of the original terms and conditions of the lease.

### Accounting for lease modifications

A lease modification might be accounted for as a new lease depending on circumstances.

A lease modification is accounted for as a new lease if the modification changes the scope of the lease by adding the right to use one or more underlying assets and charges a consideration which is commensurate with the stand-alone selling price of the additional right of use and reflects the circumstances of the contract.

#### Example: Lease modification - new lease

X Plc enters into a 6 year lease for 3 floors of an office block.

At the end of Year 4, X Plc and the lessor agree to amend the original lease for the remaining 2 years to include an additional floor in the same block.

The increase in the lease payments is commensurate with the current market rate for the extra floor as adjusted for a discount to reflect costs saved by the lessor in renting to X Plc. (For example, the lessor would save the marketing costs of finding new tenant).

#### Analysis

The modification grants X Plc an additional right to use an underlying asset (an extra floor in the building) and the increase in consideration for the lease is commensurate with the stand-alone price of the additional right-of-use adjusted to reflect the circumstances of the contract.

#### Conclusion

The modification is a separate lease from the original 6 year lease.

#### Accounting consequences

Plc must recognise a right-of-use asset and a lease liability relating to the lease of the additional floor.

There are no adjustments in respect of the original lease of 3 floors as a result of this modification.

If a modification is not accounted for as a separate lease, the lease liability is remeasured by discounting the modified future cash flows using a revised discount rate.

The lease liability would be reduced by a modification that reduces the scope of the original lease. In that case, right of use asset is reduced by the proportionate reduction of the asset with any balance (gain or loss recognised in profit or loss)

The change in the lease liability for other lease modifications simply results in an adjustment to the right of use asset.

#### Example: Lease modification - reduction in scope (no separate lease)

X Plc enters into a 6 year lease for 3 floors of an office block at \$100,000 per floor per annum payable in arrears.

The interest rate implicit in the lease could not be readily determined. X Plc's incremental borrowing rate at the commencement date was 5% per annum.

The asset is written off on a straight line basis over the life of the lease.

At the end of Year 4, X Plc and the lessor agree to amend the original lease for the remaining 2 years to reduce the space to 2 floors only.

X Plc's incremental borrowing rate at the date of the modification is 6% per annum. Analysis

The modification does not result in a new lease as it does not add to the right to use one or more underlying assets.

#### Accounting consequences

The accounting treatment is as follows.

#### The lease liability was measured initially as follows:

| - |   | - 6 | • |
|---|---|-----|---|
| • | 0 | -   | h |
| • | а | 3   | ы |

| Year  | flow    | Discount factor at 5% | Present value at 5% |
|-------|---------|-----------------------|---------------------|
| 1 – 6 | 300,000 | 5.076                 | 1,522,800           |

#### At end of year 4

The lease liability and right of use asset were measured as follows before the adjustment for the modification.

Carrying amount of the asset (1,522,800 × 2 years/6 years)

\$507,600

#### Carrying amount of the liability:

|       | Cash    |                       |                     |
|-------|---------|-----------------------|---------------------|
| Year  | flow    | Discount factor at 5% | Present value at 5% |
| 1 - 2 | 300,000 | 1.859                 | 557,600             |

The future rentals fall to \$200,000 and the right of use asset falls by 1/3.

The lease liability is remeasured as follows:

|       | Cash    | Discount factor | Present value at |
|-------|---------|-----------------|------------------|
| Year  | flow    | at 6%           | 6%               |
| 1 - 2 | 200,000 | 1.833           | 366,600          |

Dr

Cr

169,200

21,800

The double entry is as follows:

Lease liability (557,600 – 366,600) 191,000 Right of use asset (1/3 × 507,600) Profit or loss (balance)

Lessor
accounting

01. Lease Classification Para 63, 64

02. Initial measurement (Finance Leasing)

By a Leasing or Finance Institution Para 67

By a Dealer or Manufacturer Para 71

02. Subsequent Measurement Para 75

03. Modification Para 79

04. Operating Lease

Measurement Para 81

Para 87

Modification

## **Lease Classification**

#### Example: PV of future lease payments

A finance company has purchased an asset to lease out to a manufacturing company.

The asset cost \$500,000 and has an economic life of 10 years.

The lease is for 9 years at an annual rental (in arrears) of \$87,000 per annum.

The interest rate implicit in the lease is 10%.

Analysis: Lessor's view

| Discount       |           |            |              | Present |
|----------------|-----------|------------|--------------|---------|
| Time           | Narrative | Cash flows | factor (10%) | value   |
| Lessor's lease |           |            |              |         |
| 1 to 9         | payments  | 87,000     | 5.759        | 501,033 |

This is more than the fair value of the asset. This lease is a finance lease (also note that the lease is for the major part of the expected economic life of the asset which is another finance lease indicator).

#### Example: PV of future lease payments

A finance company has purchased an asset for \$50,000 and will lease it out in a series of leases as follows:

The first lease is to Company A for a period of 4 years at an annual rental of \$10,000.

After the end of the lease to Company A the asset will be leased to Company B for 3 years at a rental of \$10,000. Company B is not related to Company A.

At the end of this lease the asset is expected to have an unguaranteed residual value of \$2,573.

The interest rate implicit in the lease is 10%.

Analysis: Lessor's view

| Discount       |           |            |              | Present |
|----------------|-----------|------------|--------------|---------|
| Time           | Narrative | Cash flows | factor (10%) | value   |
| Lessor's lease |           |            |              |         |
| 1 to 7         | payments  | 10,000     | 4.868        | 48,680  |

This is 97.4% ( $48,680/50,000 \times 100$ ) of the fair value of the asset which most would agree that this was substantially all of the fair value of the asset (though IFRS 16 does not give a numerical benchmark).

This lease is a finance lease.

## Leases of land and buildings

A property lease usually includes both land and buildings. Each element should be classified separately. In other words, a property lease is viewed as a lease of land and a different lease of the building.

Leases of land and buildings are classified as operating or finance leases in the same way as leases of other assets

### Splitting the payments

It is necessary to split the rental payments for the land and building into the rental for the land and the rental for the building.

The lease payments are allocated between the land and the buildings elements in proportion to the relative fair values of the leasehold interests in the land element and buildings element of the lease at the inception of the lease.

The relative fair value of the leasehold interests is from the point of view of the lessee. This means that the relative fair value of the leasehold interests is not the same as the relative fair value of the land and the building.

#### Example: Land and buildings

A company leases a property for \$450,000 per annum (in arrears).

The lease is for 10 years and the useful life of the building is 5 years.

|                                  | Land (\$) | Building (\$) |
|----------------------------------|-----------|---------------|
| Fair value                       | 2,000,000 | 500,000       |
| Fair value of leasehold interest | 1,000,000 | 500,000       |

The rentals are allocated between the land and buildings in the ratio of 1,000,000 to 500,000 or 2 to 1

|  | 3       |
|--|---------|
| Rental for land $(2/3 \times 450,000)$ | 300,000 |
| Rental for building (1/3 × 450,000)    | 150,000 |

If this cannot be done the entire lease must be classified as a finance lease unless it is clear that both elements are operating leases, in which case the entire lease is classified as an operating lease.

If the land element is immaterial, the land and buildings may be treated as a single unit for the purpose of lease classification. In such a case, the economic life of the building is regarded as the economic life of the entire leased asset.

## Initial & Subsequent measurement (Finance Leasing)

## Illustration: Double entry on Initial recognition of a finance lease

| Debit                                      |   | Credit |
|--|---|--------|
| Asset                                      | X |        |
| Cash/bank                                  |   | X      |
| Being: Purchase of the asset by the lessor |   |        |
| Net investment in the lease                | X |        |
| Cash/bank                                  |   | X      |

Being: Lease of asset to the lessee

#### Subsequent measurement of the receivable

During each year, the lessor receives payments from the lessor. Each receipt is recorded in the ledger account as follows.

Illustration: Lessor receipts

Debit Credit
Cash/bank X
Net investment in the lease X

A finance lease receivable (net investment in the lease) is measured in the same way as any other financial asset. The balance at any point in time is as follows:

#### Illustration: Net investment in the lease

|   | S   |
|---|-----|
| Amount loaned at the start of the lease (the amount | X   |
| recognised on initial recognition of the lease)     |     |
| Plus: Interest accrued                              | X   |
| Minus: Repayments (lease payments or rentals)       | (X) |
| Repayment of loan principal                         | (X) |
| Amount owed to the lessor now.                      | X   |
|   |     |

#### Example: Total finance income

Ready Finance Plc agreed to lease a machine to X Plc commencing on 1 January Year 1.

The lease was a 6 year finance lease of a machine on 1 January Year 1 with annual lease payments of \$18,000, payable in arrears.

The fair value of the machine at the commencement of the lease was \$80,000 and Ready Finance incurred initial direct costs of \$2,000 when arranging the lease.

The estimated residual value of the asset at the end of the lease is \$10,000. The lessee has guaranteed an amount of \$8,000.

The interest rate implicit in the lease is 10.798%.

#### Total finance income

| Lessor's lease payments:      | \$       |
|-------------------------------|----------|
| Annual rentals (6 × 18,000)   | 108,000  |
| Guaranteed residual value     | 8,000    |
| Unguaranteed residual value   | 2,000    |
|                               | 118,000  |
| Amount on initial recognition | (80,000) |
| Initial direct costs          | (2,000)  |
|                               | (82,000) |
| Total finance income          | 36,000   |

## Example: Calculating and allocating finance income

Ready Finance Plc agreed to lease a machine to X Plc commencing on 1 January Year 1.

The lease was a 6 year finance lease of a machine on 1 January Year 1 with annual lease payments of \$18,000, payable in arrears.

The fair value of the machine at the commencement of the lease was \$80,000 and Ready Finance Plc incurred initial direct costs of \$2,000 when arranging the lease.

The estimated residual value of the asset at the end of the lease is \$10,000. The lessee has guaranteed an amount of \$8,000.

The interest rate implicit in the lease is 10.798%.

Proof that interest rate implicit in the lease is 10.798%

| Year | Narrative                 | Cash<br>flow | Discount<br>factor<br>(10.798%) | Present<br>value |
|------|---------------------------|--------------|---------------------------------|------------------|
|      | lease payments            |              |                                 |                  |
| 1 to | 5                         |              |                                 |                  |
| 6    | Annual rentals            | 18,000       | 4.2553                          | 76,595           |
| 6    | Guaranteed residual value | 8,000        | 0.54052                         | 4,324            |
|      | Unguaranteed residual     |              |                                 |                  |
| 6    | value                     | 2,000        | 0.54052                         | 1,081            |
|      |                           |              | 2 <u></u>                       | 82,000           |
|      |                           |              | -                               |                  |
|      | Fair value of the asset   |              |                                 | 80,000           |
|      | Initial direct costs      |              |                                 | 2,000            |
|      |                           |              |                                 | 82,000           |
|      |                           |              | · ·                             |                  |

## Example: Calculating and allocating finance income

Ready Finance Plc agreed to lease a machine to X Plc commencing on 1 January Year 1.

The lease was a 6 year finance lease of a machine on 1 January Year 1 with annual lease payments of \$18,000, payable in arrears.

The fair value of the machine at the commencement of the lease was \$80,000 and Ready Finance Plc incurred initial direct costs of \$2,000 when arranging the lease.

The estimated residual value of the asset at the end of the lease is \$ 10,000 and the lessee has guaranteed \$8,000 of this amount.

The interest rate implicit in the lease is 10.798%.

|          | Opening<br>net | Interest  | Lease    | Closing net |
|----------|----------------|-----------|----------|-------------|
| Yea<br>r | investment     | (10.798%) | receipts | investment  |
| 1        | 82,000         | 8,854     | (18,000) | 72,854      |
| 2        | 72,854         | 7,867     | (18,000) | 62,721      |
| 3        | 62,721         | 6,773     | (18,000) | 51,494      |
| 4        | 51,494         | 5,560     | (18,000) | 39,054      |
| 5        | 39,054         | 4,217     | (18,000) | 25,271      |
| 6        | 25,271         | 2,729     | (26,000) | 2,000       |
|          |                | 36,000    |          |             |
|          |                | 0 (       |          |             |

The interest income is calculated by multiplying the opening receivable by 10.798% in each year (so as to provide a constant rate of return on the net investment in the lease). The final balance on the account is the unguaranteed residual value.

#### Manufacturer/dealer leases

Manufacturers or dealers often offer to customers the choice of either buying or leasing an asset. A finance lease of an asset by a manufacturer or dealer lessor gives rise to two types of income: profit or loss equivalent to the profit or loss resulting from an outright sale of the asset being leased, at normal selling prices, reflecting any applicable volume or trade discounts; and finance income over the lease term.

#### Revenue

The sales revenue recognised at the commencement of the lease term is the lower of:

the fair value of the asset; and

the present value of the lessor's lease payments at a market rate of interest.

#### Cost of sale

The cost of sale recognised at the commencement of the lease term is the carrying amount of the leased asset less the present value of the unguaranteed residual value.

The deduction of the present value of the unguaranteed residual value recognises that this part of the asset is not being sold. This amount is transferred to the lease receivable. The balance on the lease receivable is then the present value of the amounts which the lessor will collect off the lessee plus the present value of the unguaranteed residual value. This is the net investment in the lease as defined earlier.

Costs incurred by manufacturer or dealer lessors in connection with negotiating and arranging a lease must be recognised as an expense when the selling profit is recognised.

#### Profit or loss on the sale

The difference between the sales revenue and the cost of sale is the selling profit or loss. Profit or loss on these transactions is recognised in accordance with the policy followed for recognising profit on outright sales.

The manufacturer or dealer might offer artificially low rates of interest on the finance transaction. In such cases the selling profit is restricted to that which would apply if a market rate of interest were charged.

## Example: Manufacturer or dealer leases

Best Cars Plc is a car dealer.

It sells cars and offers a certain model for sale by lease.

The following information is relevant:

Lessor's cost of setting up the lease

| Price of the car in a cash sale | \$2,000,000 |
|---------------------------------|-------------|
| Cost of the car                 | \$1,500,000 |

Finance option:

| Annual rental            | \$804,230 |
|--------------------------|-----------|
|                          | 3         |
| Lease term               | years     |
| Interest rate            | 10%       |
| Estimated residual value | nil       |

## Initial double entry:

| Revenue  | Debit Credit |
|--|--------------|
|  | 2,000,00     |
| Lease receivable (Net investment in the lease) | 0            |
| Statement of comprehensive income              | 2,000,000    |
| Cost of sale                                   |              |
|  | 1,500,00     |
| Statement of comprehensive income              | 0            |
| Asset (Inventory)                              | 1,500,000    |
| Cost of setting up the lease                   |              |
| Statement of comprehensive income              | 20,000       |
| Cash/bank                                      | 20,000       |

\$20,000

## Example: Manufacturer or dealer lease (continued)

Net investment in the lease (over its life):

|          | Opening<br>net |                | Lease     | Closing net |
|----------|----------------|----------------|-----------|-------------|
| Yea<br>r | investment     | Interest (10%) | receipts  | investment  |
| 1        | 2,000,000      | 200,000        | (804,230) | 1,395,770   |
| 2        | 1,395,770      | 139,577        | (804,230) | 731,117     |
| 3        | 731,117        | 73,113         | (804,230) | nil         |

The interest income is calculated by multiplying the opening receivable by 10% in each year (so as to provide a constant rate of return on the net investment in the lease).

## Example: Manufacturer or dealer leases with unguaranteed residual value

| The following information is relevant: |                              |
|--|------------------------------|
| Price of the car in a cash sale        | \$2,000,000                  |
| Cost of the car                        | \$1,500,000                  |
| Finance option:                        | T                            |
| Annual rental                          | \$764,01<br>8                |
| Lease term                             | 3 years                      |
| Interest rate                          | 10%<br>\$133,10              |
| Estimated residual value               | 0                            |
| Lessor's cost of setting up the lease  | \$20,000                     |
| Discount factors:                      |                              |
| t3 @ 10%                               | 0.7513148 (written as 0.751) |
| t1 to t3 @ 10%                         | 2.486852 (written as 2.487)  |

| Wo | 32 | zin | ac |
|----|----|-----|----|
| Wo |    | МП  | 23 |

| W1: Revenue – lower of:                              | \$        |
|--|-----------|
| Fair value of the asset                              | 2,000,000 |
| Present value of the lease payments                  |           |
| 764,018× 2.487                                       | 1,900,000 |
| W2: Present value of the unguaranteed residual value | \$        |
| Present value of the lease payments                  |           |
| 133,156 × 0.751                                      | 100,000   |

# Initial double entry:

| Revenue  | Debit     | Credit    |
|--|-----------|-----------|
| Lease receivable (Net investment in the lease) | 1,900,000 |           |
| Statement of comprehensive income              |           | 1,900,000 |
| Cost of sale                                   |           |           |
| Statement of comprehensive income              | 1,400,000 |           |
| Asset (Inventory)                              |           | 1,400,000 |
| Transfer                                       |           |           |
| Lease receivable (Net investment in the lease) | 100,000   |           |
| Asset (Inventory)                              |           | 100,000   |
| Cost of setting up the lease                   |           |           |
| Statement of comprehensive income              | 20,000    |           |
| Cash/bank                                      |           | 20,000    |

## Example: Manufacturer or dealer lease (continued)

Net investment in the lease (over its life):

| Year | Opening<br>net<br>investment | Interest (10%) | Lease<br>receipts | Closing net investment |
|------|------------------------------|----------------|-------------------|------------------------|
|      | 1,900,000<br>100,000         |                |                   |                        |
|      | 2,000,000                    | 200,000        | (764,018)         | 1,435,982              |
| 2    | 1,435,982                    | 143,598        | (764,018)         | 815,562                |
| 3    | 815,562                      | 81,556         | (764,018)         | 133,100                |

The interest income is calculated by multiplying the opening receivable by 10% in each year (so as to provide a constant rate of return on the net investment in the lease).

The balance on the account at the end of the lease term is the unguranteed residual value

## Initial & Subsequent measurement (Operating Leasing)

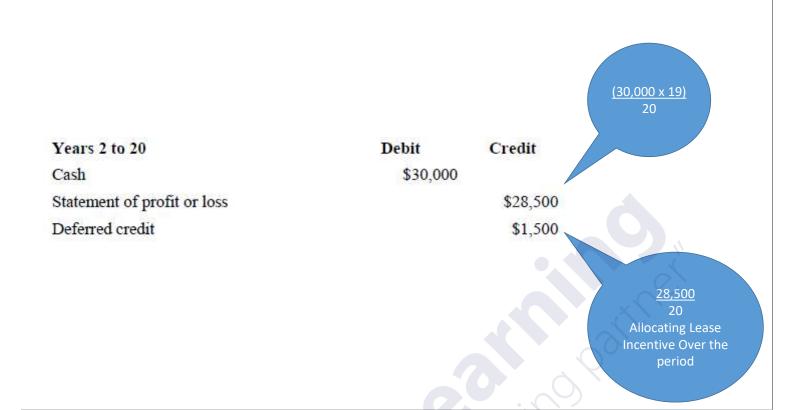
## Example: Operating lease incentives

X Limited signed a contract to lease an asset to a customer on 1 January 2016.

The lease was for 20 years.

The first year is rent free with rentals of \$30,000 per annum payable in arrears thereafter.









## Illustration: Sale and lease back double entry

|  | Debit | Credit |
|--|-------|--------|
| Sale proceeds                            | X     |        |
| Original asset (carrying amount)         |       | X      |
| Right of use asset                       | X     |        |
| Lease liability                          |       | X      |
| Gain on transfer (as a balancing figure) |       | X      |

### Lease liability

The lease liability at the inception of the lease is measured in the usual way as the present value of the lease payments discounted at the interest rate inherent in the lease (if available) or the lessee's incremental borrowing rate.

## Right of use asset

The seller/lessee has sold an asset but retained a right to use it. The right of use asset is a portion of the asset that has been sold.

The fair value of the asset is a measure of all rights inherent in the asset. The lease liability is a measure of the fair value of those rights reacquired through the lease. Therefore, the relationship between the two figures can be used to show the proportion of the rights retained.

This proportion is applied to the original carrying amount as follows to arrive at the right of use asset.

## Illustration: Measuring the right of use asset

| Carrying amount of the asset (before |   | Lease liability         | y |
|--------------------------------------|---|-------------------------|---|
| the transfer)                        | × | Fair value of the asset |   |

Note that the right of use asset is not measured at its fair value but as a proportion of its original carrying amount.

## Example: Sale and leaseback

X plc sells an asset and leases it back.

The transfer qualifies as a sale according to IFRS 15 criteria.

Details of the asset:

Carrying amount = \$1,000,000

Sale proceeds = \$1,300,000

Fair value = \$1,300,000

Terms of the lease:

annual payments of \$83,951.48 Interest rate implicit in the

lease = 5% (The 20 period, 5% annuity factor is 12.4622)

The transaction is accounted for as follows:

Step 1: Measure the lease liability as the present value of the lease payments.

| Years          | Cash flow                 | Discount factor | Present value |
|----------------|---------------------------|-----------------|---------------|
| 1 to 20        | 83,951.48                 | 12.4622         | 1,046,221     |
| Step 2: Measur | re the right of use asset |                 |               |
|                | Dight of was asset -      | 1 000 000       | 1,046,221     |
|                | Right of use asset =      | 1,000,000 ×     | 1,300,000     |
|                | Right of use asset =      | 804,785         |               |

Step 3: Complete the double entry identifying the gain/(loss) on disposal as a balancing figure

|                            | Debit     | Credit    |
|----------------------------|-----------|-----------|
|                            | \$        | \$        |
| Cash                       | 1,300,000 |           |
| Asset                      |           | 1,000,000 |
| Lease liability            |           | 1,046,221 |
| Right of use asset         | 804,785   |           |
| Gain on disposal (balance) |           | 58,564    |
|                            | 2,104,785 | 2,104,785 |

#### Example: Sale (at above fair value) and leaseback

X plc sells an asset and leases it back.

The transfer qualifies as a sale according to IFRS 15 criteria.

Details of the asset:

Carrying amount of = \$1,000,000

Sale proceeds = \$1,500,000

Fair value = \$1,300,000

Terms of the lease:

annual payments of \$100,000 Interest rate implicit in

the lease = 5% (The 20 period, 5% annuity factor is

12.4622)

Notes: The sale proceeds of \$1,500,000 comprise \$1,300,000 for the asset and additional finance of \$200,000.

The present value of the annual payments discounted at the interest rate implicit results in a total liability which is made up of the lease liability proper plus this additional finance. The lease liability proper is calculated by subtracting the additional finance from the total liability.

## The transaction is accounted for as follows:

Step 1: Measure the total liability as the present value of the annual payments.

| Years            | Cash flow                   | Discount factor   | Present value |
|------------------|-----------------------------|-------------------|---------------|
| 1 to 20          | 100,000                     | 12.4622           | 1,246,220     |
| Step 2: Identify | the lease liability.        |                   | 58            |
|                  |                             |                   | \$            |
| Extra finance    |                             |                   | 200,000       |
| Lease liability  |                             |                   | 1,046,220     |
| PV of payments   | (12.4622 × 100,000)         | 22<br>2 <u>— </u> | 1,246,220     |
| Step 3: Measure  | e the right of use asset (a | s before)         |               |
|                  | Right of use asset =        | 1,000,000 ×       | 1,046,221     |
|                  | Right of tise asset –       | 1,000,000 ×       | 1,300,000     |
|                  | Right of use asset =        | 804,785           |               |

Step 4: Complete the double entry

|                           | Debit     | Credit    |
|---------------------------|-----------|-----------|
|                           | \$        | \$        |
| Cash                      | 1,500,000 |           |
| Asset                     |           | 1,000,000 |
| Right of use asset        | 804,785   |           |
| Liability (extra finance) |           | 200,000   |
| Lease liability           |           | 1,046,221 |
| Net gain                  | <u> </u>  | 58,564    |
|                           | 2,304,785 | 2,304,785 |
|                           |           |           |

#### Tutorial notes:

The existence of the extra finance component does not affect the other aspects of the transaction.

The difference between the solution in this example and the previous example is a simple double entry of \$200,000 between cash and a liability for the extra finance.

The payments in this example are higher than those in the previous example in order to pay off the extra \$200,000.

It is not needed to solve the above example but the annual payments of \$100,000 can be prorated between the two components of the liability as follows:

| Extra finance (\$100,000 × 200,000/1,246,221)     | 16,049  |
|---|---------|
| Lease liability (\$100,000 × 1,046,221/1,246,221) | 83,951  |
|   | 100,000 |

## Example: Sale (at below fair value) and leaseback

X plc sells an asset and leases it back.

The transfer qualifies as a sale according to IFRS 15 criteria.

Details of the asset:

Carrying amount of = \$1,000,000

Sale proceeds = \$1,200,000 (\$100,000 less than fair value)

Fair value = \$1.300.000

Terms of the lease:

annual payments of \$75,927 Interest

rate implicit in the lease = 5%

(The 20 period, 5% annuity factor is 12.4622) The

present value of lease payments is \$946,221

Note: The sale proceeds of \$1,200,000 are \$100,000 less than the fair value of the asset. In effect, this is an extra amount being paid by X Plc in addition to the annual payments in order to obtain the right of use asset. The lease liability proper is made up of the present value of the lease payments plus the shortfall.

## The transaction is accounted for as follows:

Step 1: Measure the total liability as the present value of the annual payments.

| Years               | Cash flow                    | Discount factor | Present value |
|---------------------|------------------------------|-----------------|---------------|
| 1 to 20             | 75,927                       | 12.4622         | 946,221       |
| Step 2: Identify th | ne lease liability.          |                 |               |
|                     |                              |                 | \$            |
| Lease liability (ba | lancing figure)              |                 | 1,046,220     |
| Lease prepayment    |                              |                 | (100,000)     |
| PV of payments (a   | as above)                    | A-1             | 946,221       |
| Step 3: Measure to  | he right of use asset (as be | efore)          |               |
| Dight of m          | Right of use asset =         | 1,000,000 ×     | 1,046,221     |
|                     | Aight of tise asset –        | 1,000,000 ×     | 1,300,000     |
|                     | Right of use asset =         | 804,785         |               |

Step 4: Complete the double entry

|                          | Debit     | Credit    |
|--------------------------|-----------|-----------|
|                          | \$        | \$        |
| Cash                     | 1,200,000 |           |
| Asset                    |           | 1,000,000 |
| Right of use asset       | 804,785   |           |
| Lease prepayment         | 100,000   |           |
| Lease liability          |           | 1,046,221 |
| PV of the lease payments |           | 946,221   |
| Net gain                 |           | 58,564    |
| # <u>**</u>              | 2,004,785 | 2,004,785 |

#### Tutorial notes:

The existence of the lease prepayment does not affect the other aspects of the transaction. The difference between the solution in this example and the example at market terms is a simple double entry of \$100,000 between cash and a a lease prepayment.

The payments in this example are lower than those in the first example as \$100,000 has already been repaid.

## Buyer/lessor accounting for transfers that are a sale

The lessor must account for the purchase of the asset by applying applicable accounting standards.

The lease back is accounted for using lessor accounting as previously described.

## Accounting for transfers that are not a sale

This is accounted for using loan accounting by both parties. IFRS 9 applies to the financial liability recognised by the seller and the financial asset recognised by the buyer.