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CHAPTER 12

LIABILITIES

Learning Objectives

After you have studied this chapter, you should:

LO-1	Define the meaning of a liability and distinguish between financial, non-financial liabilities and constructive obligations.
LO-2	Classify financial liabilities and explain the recognition and measurement requirements initially and in subsequent reporting periods.
LO-3	Account for common financial liabilities.
LO-4	Explain how provisions are measured.
LO-5	Illustrate various examples of provisions and explain issues related to timing of recognition.
LO-6	Explain the impact of discounting liabilities.
LO-7	Demonstrate how liabilities are presented and disclosed in the statements
LO-8	Compare and contrast the reporting and measurement of liabilities under ASPE and IFRS

1. WHAT IS A LIABILITY? LIABILITY DEFINITION

The liabilities of a business are its obligations (debts). According to the conceptual framework, it is defined as a *present obligation arising from past events*, the settlement of which is expected to result in an *outflow* of economic benefits. Settlement could be through *future transfer or use of assets, provision of services, or other yielding of economic benefits*.

The characteristics of a liability are:

- an expected *future* sacrifice of assets or services,
- constituting a *present* obligation,
- the result of a *past* transaction or event.

There must be a past transaction that is an **obligating event**, which is an event that creates an obligation where there is no other realistic alternative but to settle the obligation.

Constructive Obligations

A constructive obligation is a liability because there is a pattern of past practice or established policy, unlike a legal obligation that is a liability arising from a contract or legislation. A constructive obligation can exist because if a company makes a public statement that it will accept certain responsibilities, the statement creates a valid expectation that the company will honour those responsibilities. Therefore a liability can be created when a company reacts to moral or ethical factors.

Categories of Liabilities

There are two basic types of liabilities, financial and non-financial.

Financial liabilities are financial instruments where a financial liability is a contract that gives rise to a financial liability of one party and a financial asset of another party. That is, one party has an accounts payable and the other party has an accounts receivable with the two transactions mirroring each other.

Non-financial liabilities are liabilities that do not meet the definition of a financial liability. Deferred revenues, or costs expected to arise in the future related to current periods are the common examples of non-financial liabilities. Decommissioning obligations such as the required repair of an asset after use are an example of a non-financial liability required to be recognized by the accounting standards.

Provisions, recorded only under IFRS standards, are liabilities of uncertain timing or measurement such as warranties included with the sale of goods or services.

2. CATEGORIES OF FINANCIAL LIABILITIES

Financial liabilities fall into two categories:

- a. “Other” financial liabilities – includes most of the financial liabilities which are initially valued at fair value of the consideration received plus transaction costs and then are carried at this value over their lives. Examples are: bank indebtedness, trade and other payables, loans payable and long-term debt.
- b. Fair value through profit or loss (FVTPL) –mostly for liabilities that will be sold in the short term - recorded at fair value initially and at subsequent valuations with gains and losses recorded to earnings.

Discounting – liabilities of all categories must be valued at the present value of cash flows, where the time value of money is material. The discount rate will reflect the risk-adjusted market rate.

3. COMMON FINANCIAL LIABILITIES

The financial liabilities discussed in this section are all classified as *other financial liabilities*. These financial liabilities are initially measured at fair value of the consideration received, plus transaction costs, and then carried at this value, cost or amortized cost, over their lives.

Accounts Payable (also known as trade accounts payable)

Accounts payable are obligations to suppliers arising from ongoing operations, which includes purchases of materials, supplies and services. Current payables, such as income tax payable and the current portion of long-term debt should be reported separate from accounts payable as they are not trade payables.

Notes Payable

Notes payable result from borrowing from a lender or supplier. They are a written promise to pay a specified amount at a specified future date. Notes payable can be either interest-bearing or non-interest-bearing. If they are short term they are recorded at the stated value. If the note is more than one year and the stated interest rate is not the same as the market interest rate, then present value is calculated to determine the value at which the note payable is recorded.

Loan Guarantees

A loan guarantee requires the guarantor to pay the loan if the borrower defaults. The financial instrument rules require these guarantees to be recorded at their fair value with the fair value considered against the probability of payout.. *Loan guarantees would not be recorded if there was a zero percent chance of payout.*

Cash Dividends Payable

Declared dividends are reported as a liability between the date of declaration and payment because declaration results in an enforceable contract. Undeclared dividends in arrears for preferred shares are not recorded as a liability as the obligation can be avoided.

Monetary Accrued Liabilities

Monetary accrued liabilities are recorded in the accounts by making adjusting entries at the end of the accounting period and include wages and benefits earned by employees, interest earned by creditors but not yet paid, and the costs of goods and services received but not yet invoiced by the supplier.

Advances and Returnable Deposits

These liabilities are reported as current or long-term, depending on the time involved between date of deposit and expected termination of the relationship. If they are interest bearing, accrual of interest expense is required to increase the liability.

Taxes

Current liabilities are recorded for collection of certain taxes from customers and employees, such as sales tax, payroll taxes (income tax withheld from employees, CPP, EI, and Insurance premiums) and property taxes. Monthly property taxes require estimates as they are based on assessed value of the property which is set by the taxing authority partway through the fiscal year.

Conditional Payments

Some liabilities are established on the basis of a firm's periodic income. They are either legal liabilities or constructive liabilities, but as their amount cannot be firmly established until year-end, estimates are required for quarterly or monthly statements.

Examples of conditional payments include income tax payable and bonuses based on earnings.

4. FOREIGN CURRENCY PAYABLES

If a company has accounts or notes payable in foreign currencies, they must be restated to Canadian dollars at the year-end currency exchange rate. Any gains or losses that arise as a result of the exchange are offset or net over the period and recorded in earnings (through profit and loss).

5. NON-FINANCIAL LIABILITIES: PROVISIONS

Provisions are the major category of non-financial liabilities. **Provisions** can be caused by both legal and constructive obligations and are uncertain in timing or amount.

If they are *probable* ("more likely than not"), they are recognized as a liability called a provision. If *not probable*, they are a contingency and not recognized but the information about contingencies is included in the disclosure notes.

Measurement of a Provision

When a liability is characterized by a degree of uncertainty, the uncertainty often is centred on the amount involved. A provision is recorded at the best estimate. The **most likely outcome** (highest probability alternative) should be considered as a measurement option.

If there is a range of outcomes, the **expected value** is used (the sum of outcomes multiplied by their probability distribution).

A summary of measurement estimates is included in the textbook.

Re-estimate Annually

If a provision is estimated, the amounts are re-estimated at each reporting date.

Discounting

Liabilities, including provisions, must be discounted where the time value of money is material, using current market interest rates, and reflecting the risk level. An **exception** is if the amount and timing of cash flows is highly uncertain, *and discounting cannot be accomplished meaningfully*, then amounts are recorded on an undiscounted basis.

Contingency

In *rare* cases, it may not be possible to estimate a provision and thus the provision is reclassified as a contingency and disclosed only.

Contingencies exist when:

- The obligation is possible but not probable
- There is a present obligation but no economic resources are attached
- There is a present obligation but *rare circumstances* dictate that an estimate cannot be established.

Contingent Assets

When the contingency involves a possible future inflow rather than outflow, note that an asset is not recorded until a company is *virtually certain* of the related benefits to be obtained. At that point it is an asset not a contingent asset. *Virtual certainty* is a much higher degree of certainty than just *certainty*. Contingent assets are usually disclosed.

Prohibited Practices

It is not permitted to use a provision set up for one purpose to offset expenditures for another purpose.

6. EXAMPLES OF PROVISIONS

Lawsuits

Based on the certainty of payout, an unsettled court case may result in a provision (probable payout) or a contingency (not probable).

Recorded provisions for lawsuits are often rare as defence teams are not often willing to admit their clients' likelihood in losing the case. Settlements, particularly if an announcement is made that they are being sought, may result in a recorded constructive obligation.

See summary chart in the textbook.

Executory Contracts and Onerous Contracts

Companies can have contracts that require them to pay another party in the future, after the other party has performed some service or obligation. These are **executory contracts** as they are not *liabilities* until they have been executed by one party or the other.

If the unavoidable costs of meeting the contract exceed the economic benefits under the contract, it is classified as an **onerous contract**. A *provision* must be recorded with respect to the onerous contract, for the lesser of the costs to fulfill the contract and the costs from cancellation.

An example is provided in the textbook.

Restructuring

A *provision for restructuring* is an estimate of the money that will be paid out in connection with a future restructuring program. A liability will be recorded if the entity has a detailed formal plan for the restructuring *and* has started to implement the plan.

Warranty

For warranties that provide assurance that the product will meet agreed-upon specifications and the warranty is not sold separately, there is no distinct service provided. The *cost deferral method* is used for these warranties. Warranties may also be in force as a *constructive obligation* based on a company's announced intentions. For example, in the case of a hazardous recall, the company may offer a refund to preserve its reputation.

An example of the cost deferral method for warranties is in the textbook.

Restoration and Environmental Obligations

If there are legislative remediation requirements, the cost must be estimated and accrued. If these are *pending*, the provision is accrued only if there is **virtual certainty** that the legislation will be enacted.

Sales Returns and Refunds

A company may allow merchandise to be returned for a cash refund or a credit on account. This may be a legal obligation, with stated return policies, or a constructive obligation based on past practice. If returns are predictable the obligation must be estimated and recorded at the time of the sale.

Coupons and Gift Cards

Coupons are often used as sales incentives. A provision for outstanding coupons may be recorded, but only in limited circumstances. The key to a coupon offer is whether economic benefits are transferred. A reliable measurement for the provision includes estimating the take-up rate for the coupons; the **breakage** (unused) rate can be estimated based on past history or other valid evidence.

An example is provided in the textbook.

Loyalty Programs

A common sales incentive is a customer loyalty program where the customer is awarded loyalty points. A loyalty program is an example of a sales contract involving multiple deliverables, as we saw in Chapter 6. No separate expense is recognized—the *loyalty program is an allocation of original revenue*. An unearned revenue account, or provision for rewards, is created, measured according to the value of the awards to the customer, not the cost of the goods to the company. The provision is reduced when the points are redeemed.

Repairs and Maintenance

These costs are expensed as incurred, not accrued which could smooth out earnings. They are not accrued as there has been no obligating event.

Self-Insurance

A provision for estimated losses must be established for *events (fire and theft) taking place prior to the reporting date*, but also for *loss events that have happened during the year but are not yet known*, such as undiscovered damage. Such damage might be discovered after the year-end, and it must be accrued. This allows for a reasonable delay based on known events. *A provision must be justified based on a loss event.* If there is no such event, no accrual can be made, even if the odds suggest that a future year will have heavier incidence of loss events.

Compensated-Absence Liabilities

Any expense due to employees compensated absences (paid vacations, holidays and medical leave) must be accrued in the year in which it is earned.

A **Summary** chart of these possible provisions and the recording considerations is provided in the textbook.

7. The Impact of Discounting

Liabilities must be discounted where the time value of money is material. Common examples are low-interest loans.

The **nominal interest rate** is the rate stated for a liability. The **effective interest rate**, or yield, is the market interest rate. The effective interest rate is used to calculate the present value of the debt (i.e. discount the liability).

If the liability pays the effective market interest rate, the discounted amount is equal to the maturity amount and there is no need to discount.

WATCH!

To calculate the present value of the face value, use the appropriate table at the end of the textbook (Present Value of 1:P/F). Locate the appropriate “effective interest” column then follow it down to “number of periods”. This will give you the factor you multiply the face value by.

WATCH!

To calculate the present value of periodic interest payments, use the appropriate table at the end of the textbook (Present Value of an Ordinary Annuity: P/A, or Present Value of an Annuity Due: P/AD). Locate the “effective interest” column, then follow it down to the “number of periods”. This will give you the factor you multiply the periodic interest payments by.

An example is provided in the textbook..

Also, an illustration follows:

Illustration

A company purchased inventory and agreed to pay the vendor sold \$12,000 in 2-years, plus annual accrued interest of 4% . The market interest rate for similar term and security is 10%.

Required

Compute the present value of a note.

Present value = PV of maturity amount + PV of periodic interest payments.

Maturity amount = \$12,000

Periodic interest payments = $\$12,000 \times 4\% = \480

Effective interest rate = 10%

Periods = 2

$0, P/F, 10\%, n = 2) + (\$480, P/A, 10\%, n = 2)$

+ \$833

)

The note is at a *discount* = $(\$12,000 - \$10,750) = \$1,250$.

WATCH!

Premium or Discount on notes is the difference between the maturity amount and the present value of note.

Measurement of Interest Expense

Premium or Discount Recognition

If the nominal interest rate is different from the interest rate at the time the note is issued, the loan is issued above or below par, or at a premium or discount

When nominal and effective interest rates differ, this results in the debt being issued at discount or premium (compared to face value of debt). The premium or discount is amortized to income as an adjustment to the interest expense over the life of the debt using the *Effective interest method*. A constant effective rate of interest is maintained.

Several examples of present value calculations are provided in the textbook.

Remeasurement of an obligation

When an obligation will occur in the future it must be estimated. The estimation may change over time under the following conditions:

- A change in the amount or timing of the expected future obligation cash flows; or
- A change in the discount rate to reflect current market rates.

In these cases an adjustment to both the obligation and the related asset is required.

An example of the decommissioning liability with remeasurement is provided in the textbook.

8. CLASSIFYING LIABILITIES

Most companies segregate their liabilities between current and long-term. A **current liability** is one that is due or payable *within the next operating cycle or in the next fiscal year, whichever period is longer*. A **long-term liability** has a due date past this time window.

In North America, current liabilities normally are listed by descending order based on the strength of the creditor's claims. In other countries, this may be reversed.

Classification of Notes Payable

Notes payable may be long-term or current liabilities. Classification depends on the terms of the loan. They are current if they are loans due on demand or the loans are due within the next year. Long term debt that is in violation of debt covenants and can be called by the lender at any time is classified a current liability.

If there is a contractual arrangement at year-end to support restructuring a debt from current to long-term, then reclassification is permitted. Note disclosure may be appropriate.

Classification of Provisions

Provisions are classified as current or long term based on the timing of expected future cash flows. However, classification must be first based on the legal terms of the provision.

9. DISCLOSURE AND STATEMENT OF CASH FLOWS

Disclosures for Financial Liabilities

Extensive disclosure is required, including:

- carrying amounts of the debt,
- the fair value,
- components of each financial statement category
- legal terms of the liability such as maturity date and interest rate,
- any defaults or breaches,
- interest expense,
- any exposures to risk (credit risk, liquidity risk and market risk) and
- accounting policy information.

Disclosures for Provisions and Contingencies

Provisions must be shown in a separate category from other payables due to their nature of uncertainty and application of judgment in recording and measurement.

Companies must disclose a reconciliation, or a *continuity schedule* (opening balance to closing balance), that explains the movement in each class of provisions. Unrecorded amounts, or contingencies, must be described completely.

Statement of Cash Flows

- Changes in liabilities and provisions that are related to earnings are adjusted in operating activities.
- Cash changes in borrowings, both new loans and repayments, are reported in financing activities on the gross basis (cash proceeds and repayments presented separately).
- Non-cash changes in borrowings, such as notes payable issued for assets, are non-cash transactions and are excluded from the SCF. Non-cash transactions are described in disclosure notes.
- Interest that is represented by unwinding a discount is a non-cash expense and is added back in operating activities under both indirect and direct methods.
- Cash paid for interest can be reported either in operating activities or financing activities as long as the presentation is consistent, and excludes any portion of interest caused by unwinding a discount.

10. LOOKING AHEAD

As part of a review of the conceptual framework, the International Accounting Standards Board (IASB) is reconsidering the definition of financial elements, including the definition of a liability. The definition under consideration is that a liability is “a present obligation for which the entity is the obligor.”

Accounting Standards for Private Enterprises

Accounting standards for private enterprise (ASPE) is similar to International Financial Reporting Standards (IFRS) for financial liabilities.

However, ASPE contain no comprehensive standards for non-financial liabilities. Liabilities are recognized when they meet the recognition criteria (definition, measureable and if future sacrifices are probable). This results in largely a consistent practice with IFRS.

The term “provision” is not used under ASPE which changes the recording and disclosure related to contingencies as well.

ASPE defines *contingent liabilities* as those that result in the outflow of resources only if another event happens. A *contingent liability* is either recorded or disclosed. Under IFRS, the liability is termed a contingency only if it is *disclosed and not recorded*. It is a *provision* if it is recorded. This is a different use of the word *contingency*. The grid used under ASPE is provided in the textbook.

Constructive obligations are defined as they are under IFRS and ASPE contains an additional definition of an equitable obligation which is an obligation recorded based on ethical or moral consideration.

Under ASPE, use of the effective-interest method is not required. The **straight-line method** can be used to amortize the discount and measure interest expense.

Classification and disclosure

A company may wish to reclassify liabilities from current to long term to improve the reported working capital position. Under ASPE, classification of such a loan as long term would be permitted if renegotiation resulted in agreement by the *date the financial statements are released*.

PowerPoint Slides

The PowerPoint slides can be used in part or in their entirety in computer adapted classrooms.

Beechy, Conrod, and Farrell – *Intermediate Accounting*, Volume 2, 5e

Integrative Problems – Chapter 12 Issues

The first segment of the working trial balance that you wish to discuss with Jack and Joan is the liabilities section. They provide you with the following additional information.

Product warranty costs are estimated at 2% of sales, reliable information is scant, this Jack's best estimate based on his limited experience. Warranty costs are spread evenly over the two year period. Sales for the previous two years were; 09 - \$1,400,000 and 08- \$ 1,450,000. Actual warranty costs were; \$32,000 in 08 and \$35,500 in 09.

Current accounts payable include the following; \$ 2,000 USD to Georgia Cotton and \$3,000 EU To Swiss Fasteners. Neither of these amounts have been included in the records of the company, Phirst simply recorded these amounts when they were paid, that way he knew what the Canadian dollar cost was and did not have to be concerned with foreign currency issues. At the transaction date the following exchange rates existed, US\$1= \$0.98CDN and EU\$1=1.37cDN. At the yearend date the following exchange rates were in existence. US\$1= 1.01 CDN and EU\$1=1.33

The company has an issue with a transport company and a shipment of its product to a customer in Winnipeg. One of these shipments was involved in a motor vehicle accident. The truck over turned, the shipment was destroyed and \$10,000 in product was lost. The company had a \$5,000 deposit on the shipment that had been recorded as a sale. The shipper contends the load was improperly placed at the company's plant, that this was the cause of the accident and has made a claim for \$200,000 in damages against the company. The company had no insurance on the inventory and it contends that it is not responsible for the accident and as such has made no claim on its own insurance as a result. The company has a \$5,000 deductible on its' own insurance policy.

The current mortgage debt is up for renewal. Jack and Joan would like to refinance and recapitalize the operation to permit expansion. The proposal is to remortgage the \$ 350,000 at a prime plus 1% floating rate with an amortization period of 15 years. The company would have to maintain a debt coverage ratio of 1.5 times earnings. Prime rate is currently 3%. The company has plans to acquire new manufacturing equipment and to do renovations to the plant They would like to complete a private placement bond issue to provide the cash they will need to support the proposal. The bond issue will have a face value of \$200,000, carry a 6% interest rate and mature in 5 years. The comparable market rate for such a private placement is 8%.

Jack and Joan would like you to make any adjustments you feel are required to make the accounting records more closely follow ASPE – GAAP and to indicate what the accounting impact would be for the proposed refinancing/bond issue. Discuss how these would compare to IFRS.

Integrative Problems – Chapter 12 Solutions

1.0 Warranty costs

In the prior years the company did not accrue warranty costs, rather they expensed these costs as incurred. A simple method of accounting for warranty expenses and one that does not give a true representation of the costs associated with those sales. The matching principal would suggest that these costs should be accrued as the sales are made.

Year	Sales	Actual warranty costs incurred	Costs as a percentage of sales
2008	\$ 1,450,000	\$ 32,000	2.2%
2009	\$ 1,400,000	\$ 35,500	2.5%
2010	\$ 1,500,000	\$ 15,000	

Warranty costs related to a particular year's sales occur over a two year period including the year of the sale.

Management estimates this cost to be 2% of sales. Managements estimate appears to be somewhat less than the actual experience to date. A more conservative estimate of the warranty costs would be 2.5%.

The recognition criteria of ASPE accounting recommendations at Section 1000 indicates that the accrual of warranty costs is the correct approach. ASPE accounting recommendations at Section 1506 indicates that this change in accounting policy should be applied retrospectively. The related IFRS standard s IAS-1 and IAS -8 are largely convergent. The IAS pronouncements will exempt the retrospective application on the grounds of impracticality.

Warranty accrual prior periods (1,450,000+1,400,000@2.5%) =	71,250
Warranty costs prior periods actual (32,000+35,500)	= (67,500)
Current warranty accrual 1,500,000@ 2.5%	= 37,500
Current warranty expenses	(15,000)
Accrued warranty liability	26,250

JE 12.04

Warranty expenses (37,500 – 15,000)	22,500	
Retained earnings (71,250-67,500)	3,750	
Accrued Warranty costs		26,250

Other issues.

We don't have access to the 2007 sales, presumably some of these warranty costs (actual) relate to that year. Similar to real life situations, accountants often do not have complete information to work with and some judgment is required. These are estimated expenses and actual results will vary from that estimate, this fact does not remove the need to make the estimate in the first place. Also if the students use the management estimate for warranty costs and this practice conflicts with prior years' actual costs this will make retrospective application of this accounting policy difficult.

2.0 Foreign Currency Payables

The company has failed to record its foreign currency denominated payables. This is a violation of GAAP and understates the liabilities of the company. The company must record the liabilities at the transaction date using the exchange rates applicable to the transaction date (spot rate at that date).

\$2,000USD @ 0.98 = \$1,960 CDN

\$3,000EU @1.37 = \$4,110 CDN

JE 12.05

Purchases (1,960+4,110)	6,070	
Accounts Payable		6,070

These are monetary liabilities and at the yearend date they must be reflected in the Balance Sheet at the current exchange rate(s). Any increase or decrease in the liability is recorded as an exchange gain or loss.

\$2,000USD @1.01 = 2,020

\$3,000EU @1.33 = 3,990

6,010

Net gain (6,070 – 6,010) = 60

JE 12.06

Accounts Payable	60
Exchange Gain	60

Alternatively the students could reflect separately a gain of \$120 on the EU payable and a loss of \$60 on the USD.

The purchase or sale is viewed as a separate and distinct transaction from the ultimate settlement. The cost or sales price is firmly established at the date of the transaction. The subsequent translation adjustment is viewed as an exchange gain or loss. IAS 21 pgs 21 and 23. This is consistent with the ASPE approach 1651.13

3.0 Contingent Liabilities and Unearned revenue.

The company has \$5,000 deposit on a sale recorded as a revenue. With the loss of the shipment, the company has to replace the product and incur additional costs to do so, or refund the deposit. In either case the question becomes what to do with the deposit when the company has failed to complete its' obligations to the customer. If the assumption is made that the product will be replaced to complete the transaction then the amount should be removed from sales and recorded as unearned revenue.

JE 12.07		
Sales	5,000	
Unearned Revenue		5,000

The accountant for the company must also decide if a liability should be reflected in the records of the company with respect to the claim made on it by the Shipper.

ASPE at 3290 indicates that the amount of a contingent loss shall be accrued in the financial statements by a charge to income when both of the following conditions are met:

- (a) it is likely that a future event will confirm that an asset had been impaired or a liability incurred at the date of the financial statements; and
- (b) the amount of the loss can be reasonably estimated.

IAS 37 provides the IFRS direction with respect to contingencies.

This section differentiates between provisions, where the liability is recognized and recorded and contingencies, where the liability is disclosed but not recorded in the financial statements. " In a general sense, all provisions are contingent because they are uncertain in timing or amount. However, within this Standard the term 'contingent' is used for liabilities and assets that are not recognised because their existence will be

confirmed only by the occurrence or non-occurrence of one or more uncertain future events not wholly within the control of the entity. In addition, the term 'contingent liability' is used for liabilities that do not meet the recognition criteria."

We have a claim in the amount of \$200,000, however the company indicates it has insurance and the deductible on same is \$5,000. The question then becomes is the amount the \$200,000 or the \$5,000?

The next question is then, what is the probability that the claim against the company will succeed.

Where there is uncertainty surrounding the confirming event, ASPE at 3290 indicates that disclosure of the claim would be made but an accrual would not be made.

At a minimum, the note disclosure would include:

- (a) the nature of the contingency;
- (b) an estimate of the amount of the contingent loss or a statement that such an estimate cannot be made; and
- (c) any exposure to loss in excess of the amount accrued.

IFRS at IAS 37 is largely convergent with the ASPE section 3290, when the loss is recognized it is treated as a provision. If the loss is not recognized it is disclosed as a contingency and it is not recorded

Given the above, no accrual is recommended but disclosure of the claim would be required.

4.0 Long Term Debt Issues

Two concerns

How will the bond issue be recorded and what will be the accounting impact in future years.

What impact will this have on the debt covenant?

PV of Bond Principal@8%@5yrs

$$200,000(0.68058) = 136,116$$

PV of bond interest payments

$$200,000@6\% = 12,000$$

$$12,000@8\%@5yrs$$

$$12,000 @ 3.99271\% = 47,913$$

$$PV \quad 136,116 + 47,913 = 184,029$$

JE 12.08

Cash	184,029	
Discount on bond	15,971	
Bond		200,000

Year 1

Interest expense	$184,029 @ 8\%$	14,722
Discount on bond		2,722
Cash		12,000

ASPE deals with long term liabilities at section 3210, IFRS deals with this in two separate sections, at IAS 32 - Financial Instruments: Disclosure and Presentation and IAS 39 Financial Instruments : Recognition and measurement. They are largely similar.

Debt service ratio's.

There are many different calculations to determine this and reference should be made to the lending agreement. A common one is the EBITDA (earnings before interest and taxes and amortization) to debt service.

Income	104,190	
Adjustments		
Taxes	34,440	
Interest	14,000	$350,000 * 4\%$
Amortization	54,800	
EBITDA	193,390	
Debt service	31,100	$350,000 * 4\% / 15 \text{ years}$

Debt service ratio $193,390/31,100 = 6.21$

Bond debt service 52,000 (amortize over 5 years, $200,000/5=40,000$ yr)

Revised debt service $193,390/31,100+52,000= 2.38$

The bond principal is not due for 5 years, the above calculations assume a simple straight line amortization or sinking fund approach to the bond principal. While this ignores the time value of money it does provide an approximation. The point here is simply to permit the students to recognize the impact of adding additional debt on the company's ability to handle that debt service and the need to deal with the bond principal within five years.

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CHAPTER 12: Financial Liabilities and Provisions

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Introduction

- Many liability situations are straightforward from an accounting perspective. However, when liabilities are estimated or uncertain, they can present accounting challenges.

Introduction

- Examples of accounting challenges:
 - Does a liability exist if there is no legal liability, but the company has pronounced a commitment or plan of action?
 - How is a liability measured if the obligation is for services and not a fixed amount of cash?
 - How can a liability be measured if the amount of cash paid is based on future events?

What is a Liability?

- **A liability** is defined as:

*A **present obligation** of entity, arising from past events, the settlement of which is expected to result in an **outflow of economic benefits**.*

What is a Liability? (cont.)

- Characteristics of a liability:
 - *is an expected **future** sacrifice of assets or services;*
 - *constituting a **present** obligation; and*
 - *is the result of a **past** transaction or event.*

What is a Liability? (cont.)

- Legal obligations arise due to contract or legislation
 - Trade payables
 - Borrowings
- Constructive obligations arise due to a pattern of past practices or established policy
 - Company makes a statement that will accept certain responsibilities creating an expectation

Categories of Liabilities

- There are two types of liabilities
 - *Financial liabilities*
 - *Non-financial liabilities*

Categories of Liabilities

- A **financial liability** - a financial instrument - a *contract that gives rise to a financial asset of one party and a financial liability or equity instrument of another party*
 - Includes: accounts payable; notes payable

Categories of Liabilities

- A **non-financial liability** - any liability that is not a financial liability i.e. it has no offsetting financial asset on the books of the other party.
 - Includes: unearned revenue; warranty liabilities
 - Provisions – liability with uncertain timing or amount

Financial Liabilities

Classification	Summarized Classification Criteria	Initial Valuation	Subsequent Valuation
1. "Other" financial liabilities	Most financial liabilities; all those except those in category 2, below	Fair value, which is the transaction value and establishes the cost of the financial instrument Capitalize: Transaction costs, if any	Cost (Amortized cost)
2. Fair value through profit or loss (FVTPL)	May be FVTPL if: a. The liability will be sold in the short term; or b. Designated FVTPL by management to avoid an accounting mismatch (related/hedged financial instruments are FVTPL)	Fair value, which is the transaction value and establishes the cost of the financial instrument. Expense transaction costs, if any.	a. Fair value; gains and losses in earnings b. Fair value; change in fair value due to changes in credit risk in OCI remainder in earnings

Financial Liabilities

- **Discounting:** Financial liabilities must be valued at present value of future cash flows
 - Discounted value if liability is due beyond one year
 - Discounted at the current market (effective) interest rate specific to risk level
 - Interest is recorded as time passes
- If amount and timing highly uncertain – undiscounted amounts used.

Financial Liabilities –Accounts Payable

- Trade accounts payable – obligations to suppliers arising from operations
 - Adjust for purchase discounts, allowances and returns
- Report separately –
 - Income taxes payable

Financial Liabilities –Notes Payable

- Written promise to pay a specified amount (or series of amounts) at a specified date (or series of dates)
 - May be secured with collateral
- Sources:
 - Borrowing from lenders
 - Purchase agreements with suppliers
- Stated interest may be different from market interest rate

Notes Payable

- The **stated interest rate**: *the interest rate stated in the loan agreement*
- The **market interest rate**, or yield: *the rate accepted by two parties for loans of equal amounts, identical credit risks and conditions.*

Notes Payable

- **Interest bearing** – specify a stated rate applied to face value
- **Non-interest bearing** – no stated rate, but get interest through difference between cash lent and the higher amount of cash repaid
- Notes with stated rates less than market rate may be used by suppliers as sales incentives.

Notes Payable

- Initially record at fair value
 - Stated value if short term
 - Stated value if stated rate = market rate
 - Discounted value if stated rate is different from market rate
 - Market rate is used for discounting

Notes Payable

- Example:
- Note payable issued May 1, 20X4 and due April 30, 20X6 for \$120,000.
 - Stated rate is 4% which is equal to market rate
 - Interest is payable annually on April 30.
 - Company has Dec 31 year end

Notes Payable

Entries:

May 1, 20X4 – Initial entry

Cash	120,000	
Notes payable		120,000

December 31, 20X4 Accrue interest - $120,000 \times 4\% \times 8/12 = \$3,200$

Interest expense	3,200	
Accrued interest payable		3,200

April 30 Payment of annual interest - $120,000 \times 4\% = \$4,800$

Interest expense (4,800 x 4/12)	1,600	
Accrued interest payable (4,800 x 8/12)	3,200	
Cash		4,800

Loan Guarantee

- Requires a guarantor to pay loan principal and interest if borrower defaults
- Record at fair value using probabilities
- Example: Loan guarantee of \$500,000 has a 10% probability that it will have to be honoured
- Record:
 - Provision for \$50,000 ($= \$500,000 \times 10\%$)
- Extensive disclosure required

Cash Dividends Payable

- **Cash Dividends payable** – dividends declared but not yet paid
 - Disclosure required for dividends in arrears for cumulative preferred shares

Monetary Accrued Liabilities

- **Monetary Accrued Liabilities –**
 - Accrued wages and benefits
 - Accrued interest payable
 - Accrued goods and services received but not yet invoiced

Advances and Returnable Deposits

- **Advances – cash deposits from customers – represent guarantees for**
 - future obligations
 - performance on contract or service
 - in case of non-collection
 - for possible damage to property
- **Returnable Deposits–** received from customers or employees
 - company property , club memberships,

Advances and Returnable Deposits

- **Advances and returnable deposits**
 - Current or long-term depending on when the deposit is likely to be returned or the obligation or performance is completed
 - Terms of contract dictates what happens if the sale is not completed
 - Recorded as a **Customer Deposit Liability** when received

Taxes

- Businesses collect taxes from customers and employees that are remitted to government
- **Sales taxes include: GST, PST, HST**
 - Revenues recorded net of taxes collected
 - Purchases recorded net of GST/HST recoverable (PST is part of costs)

Taxes

- Example: Sales of \$500,000 are made and GST (5%) collected \$25,000 and PST (8%) collected of \$40,000

Cash and accounts receivable	565,000
Sales revenue	500,000
GST payable	25,000
PST payable	40,000

Financial Liabilities- Taxes

- Company also purchased inventory for \$300,000 including GST (5%) and PST at (8%)
- Entry to record purchase of inventory

Inventory (300,000 x 1.08)	324,000	
GST Payable (300,000 x 5%)	15,000	
Accounts payable		339,000

Financial Liabilities- Taxes

- Company pays taxes collected

GST Payable (25,000 – 15,000)	10,000
PST payable	40,000
Cash	50,000

Payroll Taxes

- **Payroll Taxes** – withheld from employees' pay and remitted to government (Exhibit 12-1)
 - **Personal income taxes** – employee's federal and provincial income taxes deducted and remitted to federal government
 - Canada Pension Plan (CPP)
 - Employment insurance (EI)
 - Insurance premiums – group insurance, medical insurance, pension plans

Financial Liabilities- Other

- **Property Taxes** – based on assessed values
 - Estimate of property tax accruals monthly as tax rates are set during the year
- **Conditional Payments** – may be legal or constructive liabilities
 - Estimated throughout year for interim reports and adjusted at year end as required
 - **Income taxes payable**
 - **Bonuses** - based on net income

Foreign Currency Payables

- Payables denominated in a foreign currency must be restated to Cdn \$ at the **current exchange rate** at year-end date
- Accounts payable when initially recognized is translated using spot rate on the date of the purchase
- At report date – must translate based on exchange rate at date of report
- When settled, an exchange gain or loss will be recognized

Foreign Currency Payables

- Example:
- Purchase supplies for € 1,000 on September 30
- Year-end is October 31
- Payable is settled on November 15
- Rates of exchange:
- September 30 €1 = \$1.50
- October 31 €1 = \$1.80
- November 15 €1 = \$1.90

Foreign Currency Payables

Journal Entries:

September 30

Supplies € 1,000 x 1.50	1,500	
Accounts payable	1,500	

October 31 adjust Accounts payable to \$1,800

Foreign exchange gain/loss	300	
Accounts payable		300

November 15 – Accounts payable is settled at \$1,900

Accounts Payable	1,800	
Foreign exchange gain/loss	100	
Cash		1,900

Nonfinancial Liabilities - Provisions

- A major category of non-financial liabilities are “**provisions**” - “*a liability of uncertain timing or amount*”
- Provisions caused by *legal* and *constructive* obligations

Nonfinancial Liabilities - Provisions

- Terminology is different based on degree of certainty:

Degree of Certainty	Classification
Completely certain	Financial liabilities: Payables, accruals (recorded)
Probable	Provision (recorded)
Not probable	Contingency (disclosed)

Nonfinancial Liabilities - Provisions

- Measurement of a provision
 - Recorded at the **best estimate** or **expected value**
 - If a range of outcomes is possible, determine expected value
 - the sum of the outcomes multiplied by their probability distribution:

$$[(50 \times 30\% \times \$0) + (50 \times 70\% \times 10,000)] = \$350,000$$

Nonfinancial Liabilities - Provisions

- Example of “most likely outcome”:
- The company has three legal claims outstanding against a company, each for \$100,000. There is a 30% chance that the company will have to make a payment on one lawsuit, 50% chance for two payouts, and a 20% chance for three payouts.
- Using the most likely outcome the company would accrue \$200,000
- The expected value would be \$190,000 $[(100,000 \times 30\%) + (200,000 \times 50\%) + (300,000 \times 20\%)]$

Nonfinancial Liabilities - Provisions

- **Provisions**
 - re-estimate annually
 - discount when the liability is due beyond one year
 - If amount and timing of cash flows is highly uncertain then record on undiscounted basis
 - If an estimate cannot be made – then this is a contingency and disclose only

Nonfinancial Liabilities – Provisions Summary

Population	Best Estimate	Adjusted For
Large population	Expected value	Discounted for time value of money
Small population	Most likely outcome, with judgement, considering: 1. Expected value; and 2. Cumulative probabilities	Discounted for time value of money

Contingencies

- Contingent liability exists when:
 - Obligation is possible but not probable
 - There is a present obligation but no economic resources attached; or
 - There is a present obligation but rare circumstances dictate than an estimate cannot be made
- Disclose only

Contingent Assets

- Contingent assets – arise from past events, but existence is confirmed with a future event
 - are not recorded until *virtually certain*

Examples of Provisions - Lawsuits

- Lawsuits – probability assessed by lawyers
 - *Certain* – probable – recorded as a provision
 - *Not probable* – contingency and disclose only
 - A constructive liability may still be present

First:	Then, Either/Or:	
Ability to Measure Degree of Certainty	Measurable	Not Measurable
Certain (Probable)	Provision (recorded)	Contingency (disclosed) (rare situation)
Not certain (Not probable)	Contingency (disclosed)	Contingency (disclosed)

Examples of Provisions- Executory Contracts

- **Executory contracts** – contracts that become liabilities once they have been executed
 - A future commitment that is not a liability until the other party has performed a service

Examples of Provisions- Onerous Contracts

- **Onerous contracts**
 - unavoidable costs of meeting a contract exceed the economic benefits – record a provision for the net loss
 - Example: Purchase contract to buy 10,000 kg of ore at \$1.00 per kg. The selling price is now \$0.80 per kg.
 - Record provision for: $10,000 \text{ kg} \times \$0.20 = \$2,000$

Examples of Provisions - Restructuring

- **Restructuring plan** – a plan of action controlled by management that will materially change the scope of business
- **Restructuring provision** - estimate of payments required under a future restructuring program
 - Recorded when the company has a detailed formal plan and has implemented or announced the commencement of the plan
 - Announcement must include specific facts and details

Examples of Provisions - Warranties

- **Warranties** - assurance that the product will operate as intended and meet specification
 - May be legal or constructive
 - Constructive because of actions by the company
 - Cost deferral method is used
 - Estimate of all expected future claims is recorded at time of sale:
 - Record *warranty expense* and *provision for warranty*
 - Adjust annually as estimates change
 - As cash is paid out, reduce the provision for warranty

Examples of Provisions

- **Restoration and environmental obligations**
 - May be constructive or legal (legislated)
 - If pending legislation – provision accrued only if virtually certain
- **Sales returns and refunds –**
 - May be constructive or legal
 - Estimate and record at time of sale
 - Review for reasonableness

Examples of Provisions

- **Coupons, refunds and gift cards**
 - If coupon is redeemed in cash, or products are sold at a loss - record a provision for the estimated obligation
 - Estimate breakage (unused) rate of coupons or gift cards
 - Discount if the time period is long
- **Loyalty programs**
 - allocate portion of original sale that gives rise to the points and record as a *provision for rewards*

Examples of Provisions

- **Repairs and maintenance**
 - May **not accrue** major overhaul repairs since not arising from a past event.
- **Self-insurance –**
 - Accrue a provision for estimated losses for loss events that have taken place during the year

Examples of Provisions

- **Compensating-Absence Liabilities**
 - Used only when employees can carry over unused time to future years
 - Accrue in the year it is earned
 - Adjust at year-end all of the vacation and medical leave that can be carried over

Impact of Discounting

- Discounting required when liabilities have terms greater than one year
- Discounting not required for liabilities:
 - With initial term less than one year; or
 - If timing and amounts are uncertain and discounting is not practical.

Impact of Discounting

- **Nominal interest rate** – interest rate stated for the liability
 - May be 0%
- **Effective interest rate = yield** – market interest rate for debt of similar term, security and risk
- **Present value** - is the discounted amount of the future cash flows (both interest and maturity amounts) using the effective interest rate
- If nominal rate = effective rate, then PV is equal to maturity amount and there is no need to discount.

Impact of Discounting

- **Example of No-Interest Note Payable**
- Purchase equipment for a note payable of \$40,000 and note is due in 5 years with no additional interest.
- Company's borrowing rate for a similar loan would have been 7% - effective interest rate
- PV of \$40,000 for 5 years at 7% = \$28,520

Impact of Discounting

Journal Entry to set up equipment:

Equipment	28,520	
Note Payable		28,520

Each year, record the interest – Year 1 (Years 2 – 5 will be similar)

Interest Expense	1,996	
Note Payable		1,996

Year 5 – Pay off the loan

Note Payable	40,000	
Cash		40,000

Impact of Discounting

Year	Interest paid	Interest expense 7%	Balance in Note Payable
Opening balance			\$28,520
Year 1	0	1,996	30,516
Year 2	0	2,136	32,652
Year 3	0	2,286	34,938
Year 3	0	2,446	37,384
Year 5	0	2,616	40,000

Impact of Discounting

- **Example of Note Payable with Different market and Stated Rate**
- Purchase equipment for a note payable of \$40,000 and note is due in 5 years with interest at 3%, payable annually ($40,000 \times 3\% = \$1,200$)
- Company's borrowing rate for a similar loan would have been 7% - effective interest rate
- PV of \$40,000 for 5 years at 7% with payment of \$1,200
 - = \$33,440

Impact of Discounting

Journal Entry to Set up the equipment:

Equipment	33,440	
Note Payable		33,440

Each year, record the interest – Year 1 (Year 2 – 5 will be similar)

Interest Expense	2,341	
Note Payable		1,141
Cash		1,200

Year 5 – Pay off the loan

Note Payable	40,000	
Cash		40,000

Impact of Discounting

Year	Interest paid	Interest expense 7%	Balance in Note Payable
Opening balance			33,440
Year 1	1,200	2,341	34,581
Year 2	1,200	2,421	35,802
Year 3	1,200	2,506	37,108
Year 3	1,200	2,598	38,506
Year 5	1,200	2,694	40,000

Impact of Discounting

- **Example of Provision for Lawsuit:** assume a provision of \$200,000 is recorded for a lawsuit with the expectation that the amount will be paid in two years. Timing is estimated with certainty and the company can borrow at a rate of 8%. A discount account is not used; the provision is recorded net.

Journal Entry for the discounted maturity amount [$\$200,000 \times (P/F, 8\%, 2)$]:

Loss on litigation	171,468	
Provision for litigation		171,468

Record the interest and liability – Year 1

Interest Expense ($171,468 \times 8\%$)	13,717	
Provision for litigation		13,717

Record the interest and payment – Year 2

Interest Expense [$(171,468 + 13,717) \times 8\%$]	14,815	
Provision for litigation		14,815
Provision for litigation ($171,468 + 13,717 + 14,815$)	200,000	
Cash		200,000

Impact of Discounting

- **Example of Provision with Estimate Change**
- A decommissioning liability related to equipment.
- Cost of removal is estimated to be \$40,000 in 5 years
- Company's borrowing rate for a similar loan would have been 7% - effective interest rate
- PV of \$40,000 for 5 years at 7% = \$28,520

Set up provision:

Equipment	28,520	
Decommissioning obligation		28,520

(The cost of equipment plus the decommissioning obligation will be depreciated over 5 years.)

Impact of Discounting

- **Example of Provision with Estimate Change:**
- Changes in amount or timing or discount rate of obligation must be recognized
- Record interest expense of the year and then recognize changes in estimates
- Assume market rate changes at end of Year 3 to 6%.

Impact of Discounting

Year	Equipment adjustment	Interest paid	Interest expense 7%	Interest expense 6%	Balance in Obligation
Opening balance					\$28,520
Year 1		0	1,996		30,516
Year 2		0	2,136		32,652
Year 3		0	2,286		34,938
Year 3 adjustment	662				35,600
Year 4		0		2,136	37,736
Year 5		0		2,264	40,000

Impact of Discounting

- **Example of Decommissioning Obligation**

Each year, record the interest – Year 1 (Year 2&3 will be similar)

Interest Expense	1,996	
Decommissioning Obligation		1,996

Year 3 – Adjust for change in interest

Equipment	664	
Decommissioning Obligation		664

Classifying Liabilities

- **Current liability** – settled within the next operating cycle or the next 12 months
 - Operating cycle – time between purchase of materials for processing into inventory and collection of cash from sale
 - When operating cycle cannot be identified, then use 12 months
- **Long-term liability** – has a due date past the next operating cycle or the next 12 months

Classification of Notes Payable

- **Notes Payable** that are classified as **current** include:
- **Loans due on demand** – Demand loans payable on demand (or short delay)
- **Loans due within the next year** – If loan has a due date within the next 12 months
- **Current portion of long-term notes payable** –a portion of the loan is due in the next 12 months
- **Long-term debt in violation of covenants and callable at any time**

Short-Term Obligations & Refinancing

- A company may wish to reclassify liabilities from current to long term to improve the reported working capital position
- Intention to restructure a short-term loan as a long-term loan is not enough to justify reclassification
- A contractual arrangement may be relied on to support classification of short-term obligations as long-term debt, if it is a legal document
- This agreement must be in place at the year-end date
- If a short-term obligation is to be excluded from current liabilities under a future financing agreement, note disclosure of the details would be appropriate

Classification of Provisions

- Provisions are classified as current or long-term based on timing of expected future cash flows
- However, classification must first be based on legal terms

Disclosure for Financial Liabilities

- Disclose:
 - Carrying amounts in each category
 - Fair values and description of method used
 - Components of each category
 - Legal terms – maturity, interest rate, collateral
 - Any defaults or breaches and any resolution; and carrying amount
 - Various revenue and expense amounts, including interest expense
 - Financial risk exposure – credit, liquidity, market and objectives for managing risk
 - Related accounting policies

Disclosure for Provisions

- Disclose:
 - Show in separate category
 - Explain the nature of each
 - Continuity schedule explaining movement for each class
 - Contingencies - describe completely – nature, estimate of financial effect

Statement of Cash Flows

- On statement of cash flows, report:
 - Operating activities - changes in liabilities and provisions related to earnings
 - Financing activities – cash changes in borrowings
 - Interest paid – either operating or financing
 - Operating activity - interest due to unwinding a discount is a non-cash expense and is added back
- Non-cash transactions are excluded from SCF and disclosed

Accounting Standards for Private Enterprises

- Does not use the term “provision”
- ASPE recognizes non-financial liabilities when:
 - *meet the definition of a liability, are measureable and if future economic sacrifices are probable*
- Some differences in measuring these between IFRS and ASPE
- Constructive liabilities are not recorded under ASPE
- No ASPE standard for recording customer loyalty points – may use the IFRS approach or not.

Accounting Standards for Private Enterprises

- Contingent liability – a liability that will result in the outflow of resources only if another event happens
 - *If likely* – record and disclose if measureable; if not measureable, disclose only
 - *If undeterminable* – disclose
 - *If not likely* – Do not record or disclose unless material

Accounting Standards for Private Enterprises

- May use either effective-interest method or straight-line method to discount amortization
- **Example used earlier in the chapter:**
 - Purchase equipment for a note payable of \$40,000 and note is due in 5 years with interest at 3%.
 - Company's borrowing rate for a similar loan would have been 7% - effective interest rate
 - PV of \$40,000 for 5 years at 7% with payment of \$1,200
 - = \$33,440

Impact of Discounting

Using the Straight-line Method

Year	Interest paid	Interest expense 7%	Balance in Note Payable
Opening balance			33,440
Year 1	1,200	2,512	34,752
Year 2	1,200	2,512	36,064
Year 3	1,200	2,512	37,376
Year 3	1,200	2,512	38,688
Year 5	1,200	2,512	40,000

Accounting Standards for Private Enterprises

- Classification and Disclosure
 - If a long-term loan is coming due and a refinancing agreement is in place *by the end of the fiscal year* (the reporting date) then reclassification of this loan to long-term would be permitted.



END OF CHAPTER 12: **Financial Liabilities and Provisions**

Summary → Liabilities are present obligations of a company resulting from past events, the settlement of which is expected to result in the outflow of economic benefits. Liabilities may be nonfinancial or financial and may result from legal obligations or constructive obligations. Provisions are recorded at the best estimate, discounted if needed, and are re-estimated each reporting period. Best estimate may be the expected value (large populations) or the most likely outcome informed by expected value and cumulative probability (small populations).