Chapter 12: Financial Liabilities and Provisions

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*W The solution to this assignment is on the text website, Connect. The solution is marked **WEB.**

Cases

Case 12-1 Ski Incorporated

To: Members of Board of Directors

From: Accounting Advisor

Overview

Ski Incorporated (SI) is a public company therefore you are using IFRS. The bank loan has a minimum current ratio so you will need to be careful and watch for any impacts on the ratio. You have had a tough year this year with a taxable loss so the bank financing is critical to your operations. Management will be concerned with their bonus based on net income but this will not be a concern this year with the taxable loss since there will not be any bonus.

Issues

- 1. Taxable loss
- 2. Revenue recognition memberships
- 3. Revenue recognition guests
- 4. Special promotions
- 5. Coupons
- 6. Dealer Loan
- 7. Lawsuit
- 8. Lease
- 9. Gasoline storage tanks

Analysis and Recommendations

1. Taxable loss

SI had a taxable loss of \$400,000 in 20X5. Since this is the first ever taxable loss the loss would be carried back for up to three years to recover past taxes paid at the tax rates in those years. Usually you would want to go back three years first so that if you incur another loss next year you can still go back to the other two years if there is taxable income remaining. This will result in an income tax receivable which will increase current assets and have a positive impact on your current ratio.

2. Revenue recognition memberships

The contract with the customer is for the membership in the club. This would be a written agreement between the member and SI. There is one performance obligation, the promised service is membership in the ski club. There is no transfer of the service until the membership is provided. The contract price is \$10,000. The non-refundable deposit is an advance payment towards this initiation fee and is part of the overall transaction price. The performance obligation for the initiation fee is satisfied over the period of time that the member belongs to the club. The \$10,000 would be recognized over the average period a member belongs. There should be enough historical data available to come up with a reasonable estimate. There would be no cash collection risk since the amount is paid upfront.

The annual fee is a written agreement between the member and SI. There is again one performance obligation the service for this year. The fee of \$2,000 is the total contract price and is received in 20X5 for the 20X6 ski season. This would be unearned revenue when received. Assuming the ski season goes from Dec 1 until March 31 \$500 would be recognized in 20X5 and the remainder in 20X6 which would be the period in which the service is performed. There would be no cash collection risk since the amount is paid upfront.

3. Revenue recognition guests

The contract with the guest is the written contract when they receive the ticket to ski not when the reservation is made since this reservation could be cancelled. The performance obligation is the right to ski that day. The overall contract price is the price of the ski ticket. The performance would be the right to ski on that day. There is no cash collection risk since the guest pays by credit card when they purchase the ticket.

4. Special promotions

The contract with the customer is the written contract when they receive the ticket and the right to a future lesson. There are two separate performance obligations the right to ski and the right to the lesson. The total contract price is \$100. This price would need to be allocated to the two separate performance obligations based on their relative fair value.

Fair value ski pass 80 = 61.5% x 100 = \$61.50Fair value lesson $\underline{50} = 38.5\% \text{ x } 100 = \38.50

Total fair value $\underline{130}$

The \$61.50 for the ski pass the performance obligation would be satisfied on the day that they ski. For the \$38.50 the performance obligation would be satisfied on the day they take the lesson. There would be no cash collection risk assuming a credit card is used to purchase the special pass.

5. Coupons

It must be determined if an economic loss would occur for the coupons. The coupons are for \$5 and the price of a ski pass is \$80. This is a minor amount compared to the price of the ski pass so SI would still be selling the ski pass at a profit. Therefore, the coupons should only be recognized as a cost when they are redeemed.

6. Dealer Loan

The manufacturer of the ski lift has provided a 0% interest loan. This is often referred to as a dealer loan. The loan is either measured in FVTPL or other liabilities. Most liabilities are measured in other liabilities and since there is no mismatch I recommend this loan be recorded in other liabilities. SI is required to record the loan at fair value using the market rate of interest which would be their incremental borrowing rate of 8%. Therefore, the loan would be recorded at \$2.5 million (2 periods, 8%) = \$2,143,350. The loan would then be amortized using the effective interest method and interest expense of \$171,468 would be recorded in 20X5. This would not impact the current ratio in 20X5 because the full amount would be presented as long term.

7. Lawsuit

It must be determined if the lawsuit is probable and if the amount can be measured. The Board has decided to settle the lawsuit therefore it is probable there will be a payment. The amount will be based on managements best estimate. Since there is a range this would be the midpoint of the range or \$250,000 should be accrued as a provision. In addition, there would be note disclosure on the details of the lawsuit. This liability would be current if the payment is made next year which would have a negative impact on the current ratio.

8. Lease

The lease would be an onerous contract since the costs exceed the benefits since the leased property will not be used by SI. A provision should be set up for the $$10,000 - 5,000 = $5,000 \times 24 \text{ months} = $120,000$. The current portion of the provision would have a negative impact on the current ratio.

9. Gasoline storage tanks

The gasoline storage tanks would be set up as an item of property, plant and equipment and depreciated over the 15 years. The costs to remove the tanks would be a legal obligation and would need to be set up as a decommissioning provision. The provision would be set up at the present value of the \$2.5 million. The PV would be \$2.5 million (15 periods, 8%) = \$788,100. This amount would be debited to the gasoline storage tanks and credited to the provision. Since the life of the storage tanks and the decommission provision are the same the \$10,788,100 would be depreciated over the 15 years which would be \$719,207 of depreciation expense in 20X5. Interest expense of \$63,048 would

also be recognized in 20X5 which would increase the decommissioning provision. The asset would be a long term asset and the decommissioning provisions would be a long term liability so this would not impact the current ratio.				

Case 12-2 Prescriptions Depot Limited

Overview

Prescriptions Depot Limited (PDL) is a large private company with revenues of \$5.4 billion and earnings of \$295 million. The company complies with IFRS, and is contemplating a public offering in the medium term. GAAP compliance is therefore important. Reporting objectives are to report growth in sales, especially year-over-year same-store sales growth, and stable earnings. Because of possible analyst interest, sales measurement is of critical importance. **Ethical** reporting choices are critical, given the possibility for increased scrutiny in the future; sudden changes in accounting policy at a later date may not be viewed with favor by analysts. Reporting objectives are meant to support a public offering.

Issues

- 1. Loyalty points program
- 2. Decommissioning obligations
- 3. Cash refund program
- 4. Coupon program

Analysis and recommendations

1. Loyalty points program

PDL operates a loyalty points program, which will impact on the measurement of sales revenue, important for analysts.

Currently, a sale transaction with point value attached is recognized as a sale entirely in the current period. An expense and liability for the cost – not sales value – of goods to be redeemed in the future is recognized in the same time period as the sale.

This policy maximizes the sales value recorded with the initial transaction. It does not reflect the substance of the transaction, though, which is that PDL has rendered multiple deliverables in sale: both the initial sale, and the subsequent sale based on points value are being sold.

Accordingly, PDL must consider an alternate approach to its loyalty point program:

1. The sale in the store is a contract with the customer but there are two separate performance obligations. There is the sale of the goods now and the future redemption of points. This loyalty program provides the customer with a material right. On a sale that involves issuance of points, the consideration

received must be allocated between the sale of the product and the points on a relative stand alone basis. The value of points to be redeemed in the future is recorded as unearned revenue.

- 2. As is now the case, careful measurement of the amount unearned revenue, now includes analysis of redemption, bonus offers, breakage, expiry, and the like.
- 3. When points are redeemed, the sales value of the redemption transaction is recorded as sales revenue and cost of goods sold reflects the merchandise purchased.

This approach defers sales revenue and gross profit to later periods.

As a result, current earnings (and sales) are lower, but future periods show higher sales and earnings. Trends may be affected. Analysts will react better to accurate information, and there is time for this to be assessed since plans to offer shares to the public are described as "medium term".

2. Decommissioning obligation

PDL has an obligation to remove its customized, specialized pharmacy installations in leased premises. This is a future obligation based on a past action, and represents a provision in the financial statements. It is not now recorded. This is essentially a decommissioning obligation, and standards require recognition.

Accordingly, PDL must estimate the cost to restore premises, removing the custom set-up. PDL must also estimate when restoration is likely to happen; lease renewal must be assessed. Finally, a borrowing rate for the appropriate term and amount must be estimated, and a discounted liability calculated.

The discounted liability is recognized as an asset and a liability. The asset is depreciated over the life of the leased premises. Interest is accrued annually on the liability. These two charges will decrease earnings, but represent appropriate accounting measurement.

Note also that estimates must be revised, and any changes in estimate are reflected in a revised present value and asset balance.

3. Cash refund program

The cash refund program is now accounted for when the refund takes place, recording a reduction to cash and a reduction to sales.

Since the promotion involves a cash refund, an obligation exists to pay cash in the future, based on a past transaction.

If there was a refund period open over the end of a reporting period, this accounting policy would not capture the obligation to provide refunds. That is, if the six week documentation window were open, after a given promotion, there would be refunds to be made based on recorded sales of the period. This obligation to provide refunds would not be reflected in the financial statements.

Therefore, PDL must estimate the extent of cash refunds waiting to be filed and record them as a liability when the promotion weekend ends. Estimates can be based on past practice.

The amount refunded to customers should be reported as a sales discount (a contrasales account), not as a direct decrease to sales. It should also not be recorded as a promotion expense, as it is a reduction in sales value. Recording the amounts as a sales discount is preferable to directly reducing sales, because it may help preserve information about the extent of program use for internal tracking. Analyses of sales trends may focus on net sales, so this accounting treatment may not improve sales trends, a corporate reporting objective.

The policy will record refunds earlier, and may decrease earnings in the short term. Over time, there will be no cumulative difference to earnings.

4. Coupon program

The coupon program is now accounted for by recording sales at the amount of cash received from customers. PDL then reduces inventory – and thus cost of goods sold for manufacturer rebates given for coupons redeemed. (i.e., debit accounts payable, and credit inventory which becomes cost of goods sold). This has the correct impact on gross profit (give or take some timing issues of inventory sale), but understates sales.

Since PDL is increasingly concerned with correct measurement of sales, the accounting policy for coupons must be revisited. The correct treatment:

- 1. Sales is measured at the retail price, regardless of whether the value is received from customers (\$20,000, in the case example) or from the manufacturer in the form of coupons (\$5,000). The coupons are in essence an account receivable, used to reduce an account payable.
- 2. Merchandise is recorded at the invoice cost (\$98,000) not the amount of cash paid (\$93,000).

Using the existing accounting policy, sales are recorded at \$20,000, and cost of goods sold (for many products, one assumes) at \$93,000. With the revised system, sales are \$25,000 and cost of goods sold is \$98,000.

There is no overall change to earnings, but sales are more accurately stated, which is preferable for PDL.

Conclusion

Any company with an eye on public markets must carefully assess its reporting practices and ensure appropriate accounting is followed. PDL has several policies, for loyalty points, cash refunds and coupon transactions that impact on reporting of sales and timing of earnings. In addition, they have unrecorded decommissioning obligations. Appropriate accounting demonstrates the ethical commitment of management.

Case 12-3 Camani Corporation

Overview

Camani Corporation has been negatively affected by economic conditions, and the 20X3 financial results are under particular scrutiny to determine the viability of the existing strategic model. The executive team will receive a "return to profitability" bonus if 20X3 earnings are positive. Under these circumstances, there is obvious pressure to shade reporting policies and estimates to support higher earnings. There are significant **ethical** pressures on all stakeholders in the company, but especially management.

Issues

- 1. Calculate cash from operating activities, based on current draft financial statements.
- 2. Analyse reporting implications of identified estimated financial statements elements: legal issues, depreciation policy, technology contract, inventory valuation, restructuring and environmental liability.
- 3. Re-calculate cash from operating activities, based on revised financial statements

Analysis and conclusions

1. Cash flow from operating activities, existing draft financial statements

Exhibit 1 shows that cash flow from operating activities is a negative, at (\$1,721). Earnings of \$1,535 reflect cash flows of (\$800), and dividends on common shares are another (\$921). The negative operating cash flows are caused by large build-ups in account receivable and inventory. The increase in accounts payable and accrued liabilities works to mitigate this, but is not as large as the inventory build-up.

This is contrary to a return to profitability implied by positive earnings, and calls into question the declaration of common dividends.

- 2. Analysis of accounting policies and estimates
- a. Legal issues

The accrual has been made based on one set of expected values, resulting in the accrual of \$830. If a different, less optimistic set of probabilities is used, the accrual is \$1,110:

Total payment	Alternate	Expected
(in 000's)	probability	value
		(000's)
\$ 100	0%	0
500	20	\$ 100
700	30	210
1,200	30	360
2,200	20	440
		\$ 1,110

This is an additional liability and expense of \$280 (See Exhibit 2).

b. Depreciation policy

Retaining prior years' estimates for depreciation amounts would result in \$200 additional depreciation. (See Exhibit 2).

c. Technology services

CC had recorded \$1,200 as an estimate for technology services rendered; if the \$4,000 contract is considered 45% complete (rather than 30%), another \$600 (15%) must be recorded. This is a liability and presumably an expense. (See Exhibit 2).

d. Inventory valuation

Retaining prior years' estimates for inventory valuation would result in \$775 additional write-down (\$3,125 - \$2,350.) Note that inventory levels are higher in 20X3, which is not consistent with less need for a valuation adjustment. Much might depend on the state of the economy, though, and a thorough review of the analysis the CC has prepared. (See Exhibit 2).

e. Restructuring

No accrual has yet been recorded for a restructuring. The plan has not been announced or approved, and the plan is not formal the plan at this stage. Only a formal plan, once communicated, would meet the requirements of a constructive liability. At this stage, recording is premature, and no accrual has been recorded.

f. Environmental liability

If the liability had been recorded at 5%, rather than 7%, \$329 (\$400, 4 years, 5%) would have been recorded, rather than \$306. Interest would have been \$16, not \$21 (a \$5 difference), and depreciation, over four years, would have been \$82, rather than \$77 (a \$5 difference). These adjustments are minor, and are summarized in Exhibit 2.

Effect on financial performance

The adjustments indicated by these areas have been included in the revised draft statement of financial position and financial performance shown in Exhibit 3. The statement of earnings now reflects a loss of \$320. This would eliminate any return to profitability bonus, and means that the operating strategy of the company needs to be assessed.

3. Cash flow from operating activities, revised draft financial statements

The reported loss of \$320 is more consistent with the negative cash flow from operating activities. Exhibit 4 shows the revised operating activities section of the SCF. Cash used by operating activities is unchanged, at (\$1,721). This demonstrates the reason that many focus on the SCF, since it is unaffected by estimates that underlie earnings measurement.

Conclusion

Additional information should be requested by the audit committee in each these areas, to gather evidence to support the accrual that has been made, or suggest a more appropriate amount. Since profits are marginal and there is significant incentive for management to show profit in 20X3, very careful evaluation of these areas is warranted.

Exhibit 1 Operating activities, SCF Existing draft summarized financial statements

Camani Corporation Operating Activities Section of the Statement of Cash Flow Year ended 31 December 20x3

	Tear chaca 31 December 2003			
Ope	erating Activities:			
	Net income	\$1,535		
	Adjustments for non-cash items:			
	Depreciation	3,900		
	Interest	21		
		5,456		
Cha	anges in current assets and current liabilities:			
	Increase in accounts receivable	(3,740)		
	Increase in inventory	(6,950)		
	Increase in prepaids	(87)		
	Increase in accounts payable and accrued liabilities	4,521		
	T . J			(800)
Cas	sh paid for common dividends $(\$1,535 + \$643 = \$2,178 - \$1,257)$			(921)
	cash provided (used) by operations		\$((1,721)
	1 / 1		=	
Ext	nibit 2			
	nani Corporation			
	ustments based on estimated amounts			
- J				
1)	Expense (\$1,110 - \$830)		280	
,	Accrued liabilities			280
2)	Depreciation Expense (\$4,100 - \$3,900)		200	
,	Plant and equipment (net)			200
	1 1 1			
3)	Expense		600	
- /	Accrued liabilities			600
4)	Expense (\$3,125 - \$2,350)		775	
- /	Inventory			775
				, , ,
5)	None			
,				
6)	Depreciation expense (\$82 - \$77)		5	
٠,	Asset (\$329-\$306) less \$5 extra depreciation		18	
	Interest expense (\$21 - \$16)			5
	Accrued liabilities (\$329 - \$306) less \$5 change in interest			18
				10

Exhibit 3 Camani Corporation REVISED Summarized Draft 20X3 Financial Statements

REVISED Summarized Draft Statement of Financial Position At 31 December (in 000's)

	20X3	20X2
Assets		
Cash	\$ 2,340	\$ 1,680
Accounts receivable	16,780	13,040
Inventory (-\$775)	61,145	54,970
Prepaids	542	455
Land	5,860	5,860
Plant and equipment (net) (-\$200 +\$18)	19,538	18,650
Other assets	<u>650</u>	<u>290</u>
Total debits	<u>\$106,855</u>	<u>\$94,945</u>
Liabilities		
Accounts payable and accrued liabilities(+\$280 + \$600)	48,268	42,867
Long-term debt (+\$18)	53,545	46,200
Equity		
Common shares	5,640	5,235
Retained earnings (\$643 -\$320 loss - \$921 divs)	(598)	643
Total credits	<u>\$106,855</u>	<u>\$94,945</u>

REVISED Summarized Draft Statement of Earnings

For the year ended 31 December 20X3

Sales revenue	\$104,910
Cost of goods sold (+\$775)	(67,005)
Depreciation expense (+\$200 + \$5)	(4,105)
Operating, administration and marketing (+\$280 + \$600 - \$5)	(34,120)
Earnings and comprehensive income	\$ (320)

Exhibit 4 REVISED Operating activities, SCF Revised draft summarized financial statements

Camani Corporation Operating Activities Section of the Statement of Cash Flow Year ended 31 December 20x3

Operating Activities:		
Net income (loss)	(\$320)	
Adjustments for non-cash items:		
Depreciation	4,105	
Interest	<u>16</u>	
	3,801	
Changes in current assets and current liabilities:		
Increase in accounts receivable	(3,740)	
Increase in inventory	(6,175)	
Increase in prepaids	(87)	
Increase in accounts payable and accrued liabilities	<u>5,401</u>	
		(800)
Cash paid for common dividends (unchanged)		<u>(921)</u>
Net cash provided (used) by operations		\$(1,721)

Technical Review

Technical Review 12-1

- 1. T
- 2. F The effective interest method is required in IFRS.
- 3. F The gain or loss is recognized in earnings.
- 4. T if each point in the range is equally likely
- 5. F the refinancing must be completed by the year-end date for the mortgage to be classified as long term

Technical Review 12-2

- 1. F only legal obligations are included not constructive obligations
- 2. T
- 3. T
- 4. F if each point in the range is equally likely the lower end of the range not the midpoint would be used
- 5. T

Case	Most likely outcome	Expected value	To record
1.	Most likely outcome is 0, p = 70%	Expected value is $(\$100,000 \times 10\%) + (\$200,000 \times 10\%) + (\$300,000 \times 5\%) + (\$400,000 \times 5\%) = \$65,000.$ (Still less than one	No accrual based on most likely outcome
2.	Likely (90%) The most likely payout is \$200,000	payout) Expected value is (\$100,000 x 10%) + (\$200,000 x 60%)+ (\$300,000 x 5%)+ (\$400,000 x 15%) = \$205,000. (Very close to most likely outcome)	Accrual of \$200,000, most likely outcome
3.	Likely (90%) The most likely payout is \$100,000	Expected value is (\$100,000 x 30%) + (\$200,000 x 20%)+ (\$300,000 x 20%)+ (\$400,000 x 20%) = \$210,000. (NOT close to most likely outcome)	Accrual of \$210,000 60% chance that payout is higher than \$100,000 so accrual of most likely outcome is not adequate.

Technical Review 12-4

A guarantee is measured at its fair value. It would be measured at $300,000 \times 30\% = 90,000$.

Requirement 1

Warranty expense in April, $$24,750 ($550,000 \times 4.5\%)$

Requirement 2

Balance in the warranty provision account at the end of April is \$18,450 (\$16,400 + \$24,750 - \$8,700 - \$14,000)

Technical Review 12-6

- 1) The Canadian equivalent of the payable when it is first recorded is US \$150,000 x Cdn @.75 = \$112,500. The inventory would be valued at \$112,500.
- 2) The amount in the exchange gain or loss account at the end of the year would be year end US $$150,000 \times Cdn @ .72 = $108,000$. Therefore, the difference of \$112,500 108,000 = 4,500 would be in the exchange gain or loss account. The \$4,500 represents a foreign exchange gain (credit to the account).

Technical Review 12-7

1 October 20x6		
Cash	120,000	
Note payable		120,000
31 December 20x6		
Interest expense (\$120,000 x 9% x 3/12)	2,700	
Interest payable		2,700
30 September 20x7		
Interest expense (\$120,000 x 9% x 9/12)	8,100	
Interest payable	2,700	
Cash (120,000 x 9%)	,	10,800
31 December 20x7		,
Interest expense (\$120,000 x 9% x 3/12)	2,700	
Interest payable	,	2,700
30 September 20x8		,
Interest expense (\$120,000 x 9% x 9/12)	8,100	
Interest payable	2,700	
Cash (120,000 x 9%)	,	10,800
Note payable	120,000	- , - , -
Cash	,	120,000

Requirement 1

Principal \$250,000 (P/F, 7%, 2) = \$250,000 × (0.87344)	.\$218,360
Interest \$5,000 (P/A, 7%, 2) = $5,000 \times (1.80802)$	<u>9,040</u>
	\$227,400

Requirement 2

(1)	(2)	(3)	(4)	(5)
Opening	Interest	Interest Paid	Discount Amortization	Closing
Net Liability	Expense 7% Market Rate		(2)-(3)	Net Liability
				(1) + (4)
\$227,400	\$15,918	\$5,000	\$10,918	\$238,318
238,318	16,682	5,000	11,682	250,000

Requirement 1

Requirement 2

(1)	(2)	(3)
Opening Net	Interest Expense @ Market Rate	Closing Net Liability
Liability	(1) × 6%	(1) + (2)
\$234,524	\$14,071	\$248,595
248,595	14,916	263,511
263,511	15,811	279,322

(three years only)

Requirement 3

Technical Review 12-10

- 1. Current
- 2. Current
- 3. Current
- 4. Non-current
- 5. Current

Assignments

Assignment 12-1

Requirement 1

a. Office supplies inventory	5,200	5,200
b. Cash Note payable	30,000	30,000
c. Inventory	143,000	143,000
d. Utilities expense	2,600	2,600
e. Dividends, preferred (or retained earnings) Dividends, common (or retained earnings) Dividends payable	6,000 5,000	11,000
f. Accounts payable	35,200	35,200
g. Accounts payable	53,900	53,900
h. Interest expense (\$30,000 x 10 % x 1/12)	250	250
i. Rent expense	2,400 ble accou	2,400 nts, or in

Requirement 2

Accounts payable	64,100 cr.	(1)
Note payable	30,000 cr.	
Interest payable	250 cr.	
Dividends payable	11,000 cr.	(1)

(1) See note above; utilities and rent may be in separate payables accounts. Similarly, dividends payable may be two accounts, one for common and one for preferred.

a. Cash		
Sales revenue		3,600,000
GST payable (\$3,600,000 x 5%)		180,000
b. Cash	13.020.000)
Sales revenue		12,400,000
GST payable (\$12,400,000 x 5%)		620,000
		•
c. Equipment	,250,000	
GST payable (\$1,250,000 x 5%)	62,500	
Cash		1,312,500
d. Salaries expense	85,800	5 400
Employee income tax payable		7,400
EI payable		1,400
CPP payable		1,200
Cash		75,800
e. Cash	940 000	
Sales revenue	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2,800,000
GST payable (\$2,800,000 x 5%)		140,000
GS1 payaote (ψ2,000,000 x 370)		140,000
f. Inventory (or purchases)	,200,000	
GST payable (\$12,200,000 x 5%)		
Cash		12,810,000
g. Salaries expense	85,800	
Employee income tax payable		7,400
EI payable		1,400
CPP payable		1,200
Cash		75,800
1 0 1	(220	
h. Salary expense	6,320	2 400
CPP payable (\$1,200 x 2)		2,400
EI payable (\$1,400 x 2 x 1.4)		3,920
i. Employee income tax payable	14,800	
EI payable (\$1,400 x 2) + \$3,920	6,720	
CPP payable	4,800	
Cash	-,	26,320
		-)-

Assignment 12-3

Liabilities:

GST payable (1)	\$122,000
Income tax deductions payable (2)	-
CPP payable (3)	13,500
EI payable (4)	13,280

- (1) $$43,000 + $708,000 ($1,920,000 \times 5\%) $533,000 = $122,000$
- (2) \$2,600 + \$21,400 + \$23,400 = \$47,400
- (3) \$1,900 + \$2,800 + \$3,000 + employer, \$5,800= \$13,500
- (4) $\$800 + \$2,400 + \$2,800 + \text{employer}, (\$5,200 \times 1.4) = \$13,280$

Assignment 12-4 (WEB)

a)	Inventory (70,000 x \$2.11)		147,700
b)	Inventory (150,000 x \$1.11)		166,500
c)	Inventory (20,000 x \$2.13)	42,600	42,600
d)	Accounts payable Foreign exchange loss Cash (150,000 x \$1.17)		175,500
e)	Accounts payable Foreign exchange loss Cash (20,000 x \$2.20)		44,000
f)	Accounts payable Foreign exchange loss Cash (70,000 x \$2.17)	4,200	151,900

Requirement 1

Cash	1,029,000	
Sales revenue		980,000
GST payable		49,000
		,
Salary expense	117,000	
EI payable		3,800
CPP payable		2,200
		-
Employee income tax payable		12,200
Cash		98,800
Salary expense		
EI payable (\$3,800 x 1.4)		5,320
CPP payable		2,200
Inventory	1,520,000	
GST payable (\$1,520,000 x 5%)		
Accounts payable		1,596,000
Accounts payable		1,570,000
Cook	2 207 000	
Cash		2 1 40 000
Sales revenue		3,140,000
GST payable (\$3,140,000 x 5%)		157,000
Accounts receivable (\$176,000 x \$1.03)		
Sales revenue		181,280
The US customer has been billed in US dollars, and \$176,000 is	owing.	
Cash (\$140,000 x \$1.07)	149,800	
Accounts receivable (\$140,000 x \$1.03)		144,200
Foreign exchange gains and losses		5,600
Poleigh exchange gams and losses		3,000
CCT D11	102 000	
GST Payable	192,800	100 000
Cash (\$62,800 + \$49,000 + \$157,000 - \$76,000)		192,800
Accounts payable		
Cash (60% of \$1,596,000)		957,600
Accounts receivable	1,080	
Foreign exchange gains and losses		1,080
(\$176,000 - \$140,000) = \$36,000 still owing. Recorded at \$1.03;		
(\$170,000 - \$140,000) - \$30,000 still owing. Recorded at \$1.03, $$36,000 \times $.03 = $1,080$	110 W WOILII	ψ1.00
ϕ_{0} 000 x ϕ_{0} 000 x ϕ_{0} 000		

Requirement 2

Accounts receivable	38,160 dr.	(1)
Accounts payable	638,400 cr.	(2)
CPP payable	8,300 cr.	(3)
EI payable	14,320 cr.	(4)
Income tax deductions payable	28,520 cr.	(5)

- (1) \$181,280 \$144,200 + 1,080
- (2) \$1,596,000- \$957,600
- (3) \$3,900 + \$2,200 + \$2,200
- (4) \$5,200 + \$3,800 + \$5,320
- (5) \$16,320 + \$12,200

Item	Accounting treatment
a.	Record; specific plan that has been communicated in a substantive way
b.	Record; cash rebate is a required payout; liability for 65% x 500 x \$10
c.	Do not record; plans not yet concrete.
d.	Record; legislative requirement; amount has to be estimated and
	discounted for the time value of money
e.	Record; announced intent that can be relied on by outside parties; amount
	has to be estimated and discounted for the time value of money
f.	Do not record; executory contract until time passes. Disclosure as
	commitment.
g.	Record when tower is built; remediation required under contract; amount
	has to be discounted for the time value of money
h.	Do not record; no firm offer or acceptance of out-of-court settlement.
	Disclosure.
i.	Do not record; no obligation is established because the case has not been
	settled and the company will likely successfully defend itself. Disclosure
	unless probability of payment is remote.
j.	Record; obligation for the expected value of \$4 million
k.	Record; some might claim that the expectation of successful defense
	means that the amount might simply be disclosed, and this is an
	acceptable response. However, the author is pessimistic about the success
	of appeals on CRA rulings and thus suggests recording.

Assignment 12-7 (WEB)

Item	Accounting treatment
a.	Do not record; executory contract until goods are delivered.
b.	Loss and liability recognized; record \$40,000 loss from decline in market
	value (onerous contract.)
c.	Liability for \$105,000 at year-end; originally recorded at \$110,000 Cdn.
	amount received and \$5,000 foreign exchange gain recognized to reflect
	change in exchange rate.
d.	Probable that there will be payout
	Record loss and liability at most likely outcome of \$500,000. Expected
	value; \$425,000(\$2 million x 5%) + (\$500,000 x 65%); appropriate to
	record higher value of \$500,000, reflecting payout.
e.	Record loss and liability at expected value; company stands ready to make
	payment in the event of default; amount is \$300,000 x 10%.
	Note: because this is a financial instrument, expected value or fair value is
	used for valuation. Most likely outcome is not used for valuation.
f.	Record loss and liability at expected cash outflow; obligation to make
	payment; amount is \$10,000 (\$100 x 1,000 x 10%).
g.	Record as a liability; part of initial sales price allocated to liability; Amount
	is expected fair value of merchandise to be distributed.

Item	Accounting treatment
A.	Constructive obligation: Record costs of recall; may be an additional \$1,800,000 expense and liability (\$1,200,000 ÷ 0.4 x 0.6) if costs are linear with progress. Company likely liable for any settlements or lawsuits for product damages, but testing must be completed to ascertain if there is indeed a problem with existing product.
B.	Not recorded; all that can be recorded is loss events of the year; no amount can be recorded to smooth out losses expected
C.	Record at expected value; a warranty expense and a warranty provision are recorded at the expected \$100,000 outflow. Subsequent payments reduce the provision.
D.	Record since the company has decided to settle to avoid negative publicity. Since there is a range and no amount in the range is more likely than another, the midpoint of the range \$375,000 would be managements best estimate.
Е.	Record at expected value; company is required by legislation to remediate the site. Amount must be estimated, both timing and amount, even though uncertain. Amount to be discounted for interest rate over correct risk and term.

Claim	Outcome
1.	Not likely; <50% probability of payout; no accrual. Disclosure.
2.	Likely
	Accrual at best estimate, which is the most likely payout informed by
	expected value
	\$ 5,000,000 recorded
3.	Likely
	Accrual at best estimate, which is the most likely outcome informed by
	expected value.
	Combined odds:
	40% settlement
	$(60\% \times 30\%) = 18\%$ court dismissed
	$(60\% \times 70\%) = 42\%$ court payout
	Overall, most likely outcome (42%) is \$1,600,000 payout.
	Expected value is $(\$1,000,000 \times 40\%) + (\$1,600,000 \times 42\%) =$
	\$1,072,000.
	More information about the success of the settlement offer should be
	obtained before the financial statements are issued, but an accrual of
	\$1,000,000 or \$1,600,000 is supportable based on the information
	provided.

Product	Outcome
1.	Probability of payout, therefore accrual needed
	75 claims x (1/3) x \$1,000 x 90%
	25 claims x \$5,000 x 70%
	25 claims x 12,000 x 60%
	=
	<u>\$290,000</u>
2.	Nothing recorded for the eight claims to be dismissed
	Claim #9 is likely to be paid (60%)
	Accrued at most likely outcome, \$50,000
3.	Payout is not likely (60% chance of dismissal)
	No accrual; most likely outcome

Requirement 1

31 December 20x5—Adjusting entry to accrue vacation salaries not yet taken or paid:

Salary expense 6,000

During 20x6—Vacation time carryover taken and paid:

Requirement 2

Total wage expense:

20x5: \$700,000 + \$6,000 = \$706,00020x6: \$740,000 - \$6,000 = \$734,000

20x5 statement of financial position:

Current liabilities:

Liability for compensated absences \$6,000

Retained earnings would have decreased by \$6,000.

Requirement 1

A provision is a liability of uncertain timing or amount.

Requirement 2

The warranty is both current and non current since about half was utilized this year and about half is remaining.

Requirement 3

A constructive liability is one that is not caused by contract or legislation. Instead, it arises because of a pattern of past action, established policy, or public statement upon which others rely. For a warranty, a constructive liability might arise because the company has announced a repair program in excess of current warranty requirements.

Requirement 4

The \$1,164 of additional provision created is the expense for the year, the warranty expense associated with sales or actions of the period.

Requirement 5

The \$1,164 of current expense is based on the best estimate of cost to be incurred in the future. This is an expected value for a large population.

Requirement 6

The \$690 utilized during the year is the amount spent on warranty work during the year.

Requirement 7

The \$80 unwinding of the discount is the interest expense for the year. The provision for warranty must be a discounted amount, reflecting a multi-year warranty.

Requirement 1

20X5

Cash, accounts receivable	4,600,000
Warranty expense (6% of sales)	276,000
Provision for warranty	9,000 22,000
20X6	
Cash, accounts receivable 6,100,000 Sales revenue	6,100,000
Warranty expense (6% of sales)	366,000
Provision for warranty 415,000 Inventory Cash	126,000 289,000
Warranty expense (8% - 6% of total 20X5 and 20X6 sales) 214,000 Provision for warranty	214,000
Warranty expense (1% of total 20X5 and 20X6 sales) 107,000 Provision for warranty	107,000
Requirement 2	
<i>31 December 20x5</i> Provision for warranty (\$145,000 + 276,000 - \$31,000) <u>\$390,0</u>	<u>00</u>
<i>31 December 20x6</i> Provision for warranty (\$390,000 + \$366,000 - \$415,000 + \$214,000 + \$107,000)	<u>00</u>

Requirement 1

20X5

Cash, accounts receivable (\$610 x 700 units)	427,000	427,000
Warranty expense (\$75 x 700 units)	52,500	52,500
Cash, accounts receivable (\$700 x 600 units)	420,000	420,000
Warranty expense (10% of sales)	42,000	42,000
Provision for warranty	10,000	10,000
<i>20X6</i>		
Cash, accounts receivable (\$660 x 1,000 units)	660,000	660,000
Warranty expense (\$75 x 1,000 units)	75,000	75,000
Cash, accounts receivable (\$750 x 800 units)	600,000	600,000
Warranty expense (10% of sales)	60,000	60,000
Provision for warranty	31,600	31,600
20X7		
Provision for warranty	42,000	42,000

	20x5	20x6	20x7
Warranty expense			
Line A	\$ 52,500	\$ 75,000	
Line B	42,000	60,000	
Total	\$ 94,500	\$135,000	nil

Requirement 3

31 December 20x5

31 December 20x6

31 December 20x7

Requirement 4

At the end of 20X7, the company obligations for Line B warranty work are as follows:

20X5 - some year 3 warranty obligation for goods sold in (later) 20X5

20X6 - some year 2 warranty obligation and all the year 3 warranty obligation

Requirement 1

No, Bay Lake Mining Ltd does not have a no-interest loan. The substance of the transaction is that part of the amount they pay in three years' time is interest, and part is principal. The value of the equipment is overstated at \$425,000.

Requirement 2

Present value:

$$$425,000 \text{ (P/F, 6\%, 3)} = $425,000 \times (0.83962).....$356,839$$

Requirement 3

The discount rate should be a borrowing rate for similar amount, term and security.

(If the equipment had a determinable cash fair value (i.e., what amount of cash would have to be paid to buy the equipment outright in 20X6), then this could be used as a discounted amount, and then the interest rate could be imputed.)

(1)	(2)	(3)
Opening Net Liability	Interest Expense @ Market Rate	Closing Net Liability
	$(1) \times 6\%$	(1) + (2)
\$356,839	\$21,410	\$378,249
378,249	22,695	400,944
400,944	24,056	425,000

1 August 20x6		
Equipment	356,839	
Discount on note payable	68,161	
Note payable		425,000
31 December 20x6		
Interest expense (\$21,410 x 5/12)	8,921	
Discount on note payable		8,921
31 July 20x7		
Interest expense (\$21,410 x 7/12)	12,489	
Discount on note payable		12,489
31 December 20x7 Interest expense (\$22,695 x 5/12) Discount on note payable	9,456	9,456
Requirement 6		
31 December 20x6		
Note payable		
Less: Discount (\$68,161 - \$8,921)(59,240)		\$365,760
2000 2100 cont (\$00,701 \$0,721)	<u>-</u>	φυου, του
31 December 20x7		
Note payable\$425,000		
Less: Discount (\$59,240 - \$12,489 - \$9,456)(37,295)	<u>.</u>	\$387,705

Assignment 12-16 (WEB)

Requirement 1

Principal \$90,000 (P/F, 8%, 2) = \$90,000 \times (0.85734)	\$77,161
Interest \$1,800 (P/A, 8%, 2) = $$1,800 \times (1.78326)$	3,209
	\$80,370

Requirement 2

(1)	(2)	(3)	(4)	(5)
Opening Net Liability	Interest Expense 8% Market Rate	Interest Paid	Discount Amortization (2) – (3)	Closing Net Liability (1) + (4)
\$80,370	\$6,430	\$1,800	\$4,630	\$85,000
\$85,000	6,800	1,800	5,000	90,000

1 September 20x7		
Inventory	80,370	
Discount on note payable	9,630	
Note payable		90,000
31 December 20x7		
Interest expense (\$6,430 x 4/12)	2,143	
Discount on note payable (\$4,630 x 4/12)		1,543
Interest payable (\$1,800 x 4/12)		600
31 August 20x8		
Interest expense (\$6,430 x 8/12)	4,287	
Interest payable	600	
Discount on note payable (\$4,630 x 8/12)		3,087
Cash		1,800
31 December 20x8		
Interest expense (\$6,800 x 4/12)	2,267	
Discount on note payable (\$5,000 x 4/12)		1,667
Interest payable (\$1,800 x 4/12)		600
31 August 20x9		
Interest expense (\$6,800 x 8/12)	4,533	
Interest payable	600	
Discount on note payable (\$5,000 x 8/12)		3,334
Cash		1,800
Note payable	90,000	
Cash		90,000

Principal \$1,600,000 (P/F, 6%, 3) = \$1,600,000 × (0.83962)	
Requirement 2	φ1,π20,720
1 January 20x9 Cash	1,600,000
31 December 20x9 Interest expense (\$1,428,928 × .06)	53,736 32,000
31 December 20x10 Interest expense (\$1,428,928 + \$53,736 = \$1,482,664) × .06 Discount on notes payable	56,960 32,000
31 December 20x11 Interest expense (\$1,482,664 + \$56,960 = \$1,539,624) × .06 92,376 Discount on notes payable	60,376 32,000
Notes payable	1,600,000

Requirement 1

Discounting is required to reflect the substance of the transaction. Because the time period is longer than one year and there is no stated interest rate, the eventual payment is partially principal and partly interest. The two elements must be separately recognized.

Requirement 2

Present value \$500,000 (P/F, 7%, 2) = $$500,000 \times (0.87344)$ \$436,720

Requirement 3

The discount rate should be a borrowing rate for similar amount, term and security.

(1)	(2)	(3)
Opening Net	Interest Expense @ Market Rate	Closing Net Liability
Liability	(1) × 7%	(1) + (2)
\$436,720	\$30,570	\$467,290
467,290	32,710	500,000

30 September 20x6		
Loss on legal issue (expense, etc.)	436,720	
Provision for legal loss		436,720
31 December 20x6		
Interest expense (\$30,570 x 3/12)	7,643	
Provision for legal loss		7,643
30 September 20x7		
Interest expense (\$30,570 x 9/12)	22,927	
Provision for legal loss		22,927
31 December 20x7		,
Interest expense (\$32,710 x 3/12)	8,178	
Provision for legal loss		8,178
30 September 20x8		,
Interest expense (\$32,710 x 9/12)	24,532	
Provision for legal loss	,	24,532
E		,
Provision for legal loss	500,000	
Cash		500,000
		200,000
Requirement 6		
31 December 20x6		
Provision for legal loss (\$436,720 + \$7,643)	\$444,363	
		
31 December 20x7		

Requirement 7

The provision would not be discounted if there was significant uncertainty about amounts or timing. It would be recorded at its undiscounted amount.

Provision for legal loss (\$444,363 + \$22,927 + \$8,178)<u>\$475,468</u>

Requirement 1

(1) Opening Net Liability	(2) Interest Expense @ Market Rate (1) × 8%	(3) Closing Net Liability (1) + (2)
\$1,837,566	\$147,005	\$1,984,571
1,984,571	158,766	2,143,337
2,143,337	171,467	2,314,804
2,314,804	185,184	2,499,988
2,499,988	200,012 *	2,700,000

^{*} Adjusted by \$12 to balance

(1)	(2)	(3)
Opening Net	Interest Expense @ Market Rate	Closing Net Liability
Liability	$(1) \times 8\%$	(1) + (2)
\$2,699,022	\$215,922	\$2,914,944
2,914,944	233,196	3,148,140
3,148,140	251,860*	3,400,000

^{*} Adjusted by \$9 to balance

Requirement 4

Requirement 5

Balance in decommissioning obligation, 31 December:

20X5	<u>\$1,984,571</u>
20X6	\$2,699,022
20X7	<u>\$2,914,944</u>
20X8	\$2,710,282

January 20x2 Mine site 1 Decommissioning obligation, mine site 1 \$500,000 (P/F, 7%, 3)		408,150
30 September 20x2 Mine site 2		855,588
31 December 20x2 Interest expense (\$408,150 x 7%) Decommissioning obligation, mine site 1 Balance: \$408,150 + \$28,570 = \$436,720		28,570
Interest expense (\$855,588 x 7% x 3/12)		14,973
30 September 20x3 Interest expense (\$855,588 x 7% x 9/12) Decommissioning obligation, mine site 2 Balance: \$855,588 + \$14,973 + \$44,918 = \$915,479		44,918
31 December 20x3 Interest expense (\$436,720 x 7%) Decommissioning obligation, mine site 1 Balance: \$436,720 + \$30,570 = \$467,290		30,570
Mine site 1		100,446
Interest expense (\$915,479 x 7% x 3/12)		16,021
30 September 20x4 Interest expense (\$915,479 x 7% x 9/12) Decommissioning obligation, mine site 2 Balance: \$915,479 + \$16,021 + \$48,063 = \$979,563	48,063	48,063

Decommissioning obligation, mine site 2	193,467	
Mine site 2		193,467
900,000 (P/F, 7%, 2) = \$786,096 versus \$979,563		
31 December 20x4		
Interest expense (\$567,736 x 7%)	39,742	
Decommissioning obligation, mine site 1		39,742
Balance: \$567,736 + \$39,742 = \$607,478		
Ι	10.757	
Interest expense (\$786,096 x 7% x 3/12)		10.757
Decommissioning obligation, mine site 2		13,757

31 December 20x2

Decommissioning obligation (\$436,720 + \$855,588 + \$14,973).\$1,307,281

31 December 20x3

Decommissioning obligation (\$567,736 + \$915,479 + \$16,021)\$1,499,236

31 December 20x4

Decommissioning obligation (\$607,478 + \$786,096 + \$13,757)..<u>\$1,407,331</u>

Requirement 1

	Classification
Trade accounts payable	Current liability*
Dividends payable	Current liability*
Provision for restructuring	Current liability; 20X6 payment
Provision for coupon refunds	Current liability*
Decommissioning obligation	Long-term liability; 20X9 payment
Note payable, 8%	Current liability; refinancing negotiations not complete. Refinancing must be completed by year end to be classified as non current.
Note payable, net, 6%	Long-term**

^{*}Most logical assumption is 20X6 payment

Requirement 2

SFP items:

Classification	Item	Amount
Operating	Increase in accounts payable	\$ 283,300
Financing	Paid dividends	(90,000)
Operating	Add back: non-cash restructuring	260,000
Operating	Add back: increase in coupon liability	35,000
Operating	Add back: non-cash interest expense	6,000
Financing	Borrowed under note payable	400,000
Operating	Add back: non-cash interest expense	4,000

Note: the non-cash \$89,000 acquisition of equipment would be included in the disclosure notes.

^{**} Multi-year note payable issued in 20X5; not yet current.

SFP items:

Classification	Item	Amount
Operating	Decrease in accounts payable	\$ (193,300)
Financing	Paid dividends*	(115,000)
Operating	Add back: non-cash litigation expense	160,000
Operating	Add back: non-cash interest expense	6,700
Financing	Repaid note payable	(200,000)
Operating	Add back: non-cash interest expense	4,400

^{*(25,000} balance in 20X1 + 100,000 declared – 10,000 closing balance)

Assignment 12-23 ASPE

Requirement 1

Under IFRS, the loan would be short-term. Classification is based on the legal status on the balance sheet date, and refinancing agreement is not complete at that point.

Requirement 2

Under IFRS, the \$200,000 donation commitment would be recorded as a provision, because there has been a public announcement which is being relied upon. This is a constructive liability.

Requirement 3

Under ASPE, the loan would be long-term. Classification is based on the legal status when the statements are finalized, and the refinancing agreement was completed in January before the financial statements were released.

The \$200,000 commitment would not be recorded as a liability under ASPE, since it is a constructive obligation, not a legal liability. Constructive obligations are not recorded under ASPE.

Assignment 12-24 ASPE (WEB)

Requirement 1

Present value (unchanged from 12-16)

Principal \$90,000 (P/F, 8%, 2) = $$90,000 \times (0.85734)$	\$77,161
Interest \$1,800 (P/A, 8%, 2) = $$1,800 \times (1.78326)$	3,209
	\$80.370

Discount: (\$90,000 - \$80,370) = \$9,630

Allocated evenly over two years = \$4,815 per year

Table:

(1)	(2)	(3)	(4)	(5)
Opening Net Liability	Interest Expense	Interest Paid	Discount Amortization	Closing Net Liability (1) + (4)
\$80,370	\$6,615	\$1,800	\$4,815	\$85,185
\$85,185	6,615	1,800	4,815	90,000

Entries:

1 September 20x7

Inventory	80,370	
Discount on note payable	9,630	
Note payable		90,000
31 December 20x7		
Interest expense (\$6,615 x 4/12)	2,205	
Discount on note payable (\$4,815 x 4/12)		1,605
Interest payable (\$1,800 x 4/12)		600
31 August 20x8		
Interest expense (\$6,615 x 8/12)	4,410	
Interest payable	600	
Discount on note payable (\$4,815 x 8/12)		3,210
Cash		1,800

31 December 20x8

31 December 2000		
Interest expense (\$6,615 x 4/12)	2,205	
Discount on note payable (\$4,815 x 4/12)		1,605
Interest payable (\$1,800 x 4/12)		600
31 August 20x9		
Interest expense (\$6,615 x 8/12)	4,410	
Interest payable	600	
Discount on note payable (\$4,815 x 8/12)		3,210
Cash		1,800
Note payable	90,000	
Cash		90,000

Requirement 2

The effective interest method is the more accurate measure of interest expense, because it provides a constant yield on the opening liability balance. ASPE allows straight-line amortization because it is simple, and the restricted user group is felt to be adequately served by the policy.

Assignment 12-25 ASPE

Requirement 1

Pre	esent value (unchanged from 12-17)	
Pri	ncipal \$1,600,000 (P/F, 6%, 3) = \$1,600,000 × (0.83962)	\$1,343,392
	erest \$32,000 (P/A, 6%, 3) = \$32,000 × (2.67301)	
1110	(2.07301)	\$1,428,928
Ent	tries:	Ψ1,π20,720
EII	iries.	
	1 2 0 0	
1	January 20x9	
	Cash	3,928
	Discount on notes payable	,072
	Notes payable	1,600,000
31	December 20x9	
<i>J</i> 1		,024
	Discount on notes payable (\$171,072 / 3)	57,024
	- · · · · · · · · · · · · · · · · · · ·	,
	Cash	32,000
2.1	D 1 20 10	
31	December 20x10	
	Interest expense 89,	,024
	Discount on notes payable (\$171,072 / 3)	57,024
	Cash	32,000
		,
31	December 20x11	
	Interest expense	.024
	Discount on notes payable (\$171,072 / 3)	57,024
	Cash	32,000
	Casii	32,000
	N	
	Notes payable	
	Cash	1,600,000

Requirement 2

The effective interest method is the more accurate measure of interest expense, because it provides a constant yield on the opening liability balance. ASPE allows straight-line amortization because it is simple, and the restricted user group is felt to be adequately served by the policy.