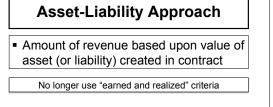
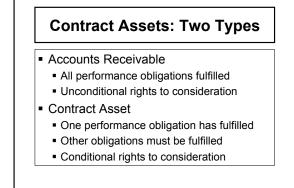


Revenue from Contracts with Customers

- Convergence
 - FASB and IASB work together and attempt to jointly issue new rules
 - Minimize (not eliminate) differences between GAAP and IFRS
- In 2013 FASB and IASB jointly issued one standard on revenue recognition





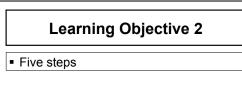
Contract Asset	s: Two Typ	es
Description	Debit	Credit
Contract Asset	20,000	
Sales Revenue		20,000
Completed one of two performance ob	ligations	
Description	Debit	Credit
Accounts Receivable	50,000	
Contract Asset		20,000
Sales Revenue		30,000
Completed second performance obligation	tion	

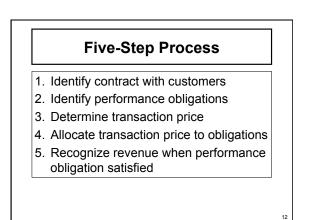
Contract Liabilities

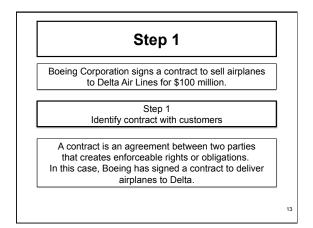
Unearned Revenue (liability)
 Customer has prepaid
 Obligation to provide future goods/services

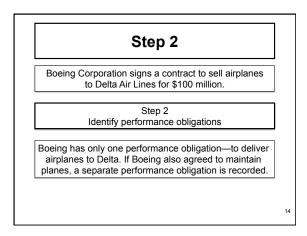
 Description
 Debit
 Credit

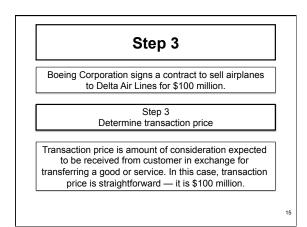
Description	Debit	Credit
Cash	80,000	
Unearned Sales Revenue		80,000
Customer paid \$80,000 in advance; good will be	delivered in	60 days

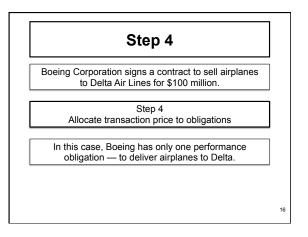


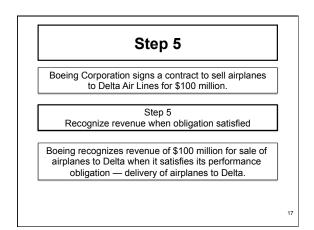


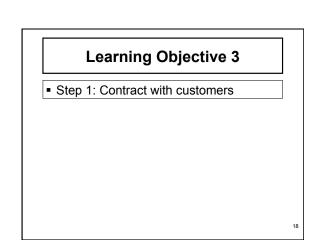






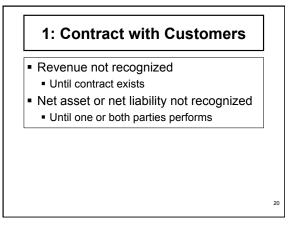






Contract

- Agreement between two or more parties
- Creates enforceable rights, obligations



1: Contract with Customers

19

21

23

Contract asset = Rights received > Performance obligation

Contract liability = Rights received < Performance obligation

On May 15, 20 the goo payme No entry is s, neither p the product	Xercise 104-1 10, 2014, Cosmo Co. enters i 14. Greig agrees to pay the full dois is \$2,100. Cosmo delivers i required on May 10, 2014, arty has an unconditional rig and therefore should recogr an on that date. In addition, Srein	contract price of \$2,800 on J the product to Greig on June 1 te journal entries for Cosmo re because neither party has p tht as of May 10, 2014. On ize revenue as it received a	uly 15, 2014. The cost of 5, 2014, and receives alated to this contract. (If erformed on the contract. Th June 15, 2014, Cosmo delive n unconditional right to	ers
May 1	5			
20	14 No Entry	0		
	No Entry		0	
			0	
June 1 20	5, 14 Accounts Receivable	2,800		
	Sales Revenue		2,800	
	(To record sale)			
	Cost of Goods Sold	2,100		
	Inventory		2,100	
	(To record cost of goods sold)			
July 1	5, 14 Cash	2,800		
20	14 0000	2,000		22
	Accounts Receivable		2,800	

Contract Modifications

- Change in terms of ongoing contract
- Determine whether
 - New contract (performance obligation)
 - Modification of existing contract

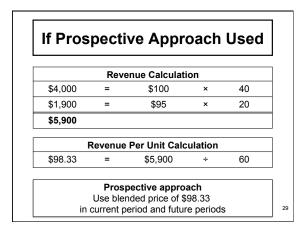


Original C	ontr	ract		
Original Cont	act Ter	ms		
Total units		10	0 units	
Deliver on May 1	60 units			
Deliver on June 1	40 units			
Selling price per unit		\$100		
Total contract amount	\$10,000			
Description		Debit	Credit	
Accounts Receivable	ceivable 6,000			
Sales Revenue			6,000	
May 1: Deliver 60 units at \$100 per unit				

Modification New Cor			
After delivery of 60 units customer modifies contract Orders 20 additional units, \$95 each (market price) Deliver 10 additional units on June 1 Deliver 10 additional units on July 1			
Modified Contact Terms			
Additional units ordered 20			
Selling price per unit	\$95		
Total amount \$1,900			
Delivery Schedule			
June 1	50 = (40 + 10)		
July 1	10		

Original Cont	act Ter	ns			
Number of units 100					
Selling price per unit			\$100		
Modified Cont	act Ter	ms			
Additional units ordered 20					
Selling price per unit \$9			\$95		
Delivery So	hedule				
June 1	e 1 50 = (40 + 10)				
July 1 10					
Description Debit Cre					
Accounts Receivable		4,950			
Sales Revenue			4,950		
June 1: Deliver 40 units at \$100 per uni	t plus 10	units at \$95			

Original Conta	ct Terr	ns			
Number of units			100		
Selling price per unit	Selling price per unit \$10				
Modified Contact Terms					
Additional units ordered	Additional units ordered 20				
Selling price per unit	Selling price per unit \$9				
Delivery Sc	hedule				
June 1		50 = (4	0 + 10)		
July 1 10					
Description		Debit	Credit		
Accounts Receivable		950			
Sales Revenue			950		
July 1: Deliver 10 units at \$95					



Original Cont	act Ter	ms			
Number of units					
Selling price per unit	Selling price per unit \$10				
Modified Contact Terms					
Additional units ordered 20					
Selling price per unit	Selling price per unit \$95				
Delivery Schedule					
June 1	June 1 50 = (40 + 10)				
July 1			10		
Description		Debit	Credit		
Accounts Receivable		4,916.50			
Sales Revenue			4,916.50		
June 1: Deliver 50 units at \$98.33					

Original Conta	act Teri	ns			
Number of units 100					
Selling price per unit	\$100				
Modified Cont	act Ter	ms			
Additional units ordered	Additional units ordered 2				
Selling price per unit \$					
Delivery Schedule					
June 1		50 = (4	0 + 10)		
July 1			10		
Description		Debit	Credit		
Accounts Receivable		983.30			
Sales Revenue			983.30		
July 1: Deliver 10 units at \$98.33					

Exercise 18A-3 In September 2014, Gaertner Corp. commits to selling 158 of its iPhone-compatible docking In section to Determine 2014, order the Control commits to sening 139 on the Priorie-Comparative docking stations to Determ Buy Co. for \$15,800 (\$100 per product). The stations are delivered to Bette Buy over the next 6 months. After 100 stations are delivered, the contract is modified and Gaertner promises to deliver an additional 50 products for an additional \$4,750 (\$95 per station). All sales are cash on delivery. Prepare the journal entry for Gaertner for the sale of the first 100 stations. The cost of each station is \$57. (enter 0 for the Sales Revenue (100 × \$100) = **\$10,000** int titles and ted when the mount is ente Inventory (100 × \$57) = \$5,700 Cash 10,000 Sales Revenue 10.000 (To record the sale) Cost of Goods Sold 5,700 Inventory 5,700 (To record cost of goods sold)

Exercise 18A-3

In September 2014, Gaertner Corp. commits to selling 158 of its iPhone-compatible docking stations to Better Buy Co. for \$15,800 (\$100 per product). The stations are delivered to Bette Buy over the next 6 months. After 100 stations are delivered, the contract is modified and Gaertner promises to deliver an additional 50 products for an additional \$4,750 (\$95 per station). All sales are cash on delivery.

Prepare the journal entry for the sale of 10 more stations after the contract modification, assuming that the price for the additional stations reflects the standard mode selling product at the time of the contract modification. In addition, the additional stations are distinct from the original products as Gaertner regularly sells the products separately. (If no entry is

Sales Revenue (10 × \$100)	-	\$1,000	
Inventory (10 × \$57)	=	\$570	
			for the additional 50 products is, in effect, a new and separate co g for the previously existing contract.

Cash 1,000 Sales Revenue 1.000 (To record the sale)

1	Cost of Goods Sold	570	
ſ	Inventory		570
(To record cost of goods sold)		

Exercise 18A-3

ntract for futu

In September 2014, Gaertner Corp. commits to selling 158 of its iPhone-compatible docking stations to Better Buy Co. for \$15,800 (\$100 per product). The stations are delivered to Better Buy over the next 6 months. After 100 stations are delivered, the contract is modified and Gaertner promises to deliver an additional 50 products for an additional \$4,750 (\$95 per station). All sales are cash on delivery.

Prepare the journal entry for the sale of 10 more stations (as in (b)), assuming that the pricine Prepare the journal entry for the sale of 10 more stations (as in (b)), assuming that the prici-for the additional products does not reflect the standalone selling price of the additional products and the prospective method is used. (If no entry is required, select "No Entry" for the account titles and enter 0 for the amounts. Credit account titles are automatically indented when the amount is entered. Do not indent manually. Round answers to 2 decimal places, e.g. 52.75.)

Credit	
976.90	
570	

n this case, because the new price does not reflect a stand-alone selling price, Gaertner allocates
modified transaction price (less the amounts allocated to products transferred at or before the
ate of the modification) to all remaining products to be transferred.

Jnder the prospective approach, Gaertner determines the transaction price for subsequent sales

(\$97.69) as follows.

Consideration for products not yet delivered under original contract ($$100 \times 58$)	\$ 5,800
Consideration for products to be delivered under the contract modification ($$95 \times 50$)	4,750
Total remaining revenue	\$10,550

Revenue per remaining unit ($$10,550 \div 108$) = \$97.69.

As indicated, the numerator includes products not yet transferred under original contract ($100 \times$ 58) plus products to be transferred under the contract modification (95×50), which is divided by the remaining 108 products.

Cash (10 x \$97.69) = \$976.90

Cash	976.90	
Sales Revenue		976.90
(To record the sale)		
Cost of Goods Sold	570	
Inventory		570

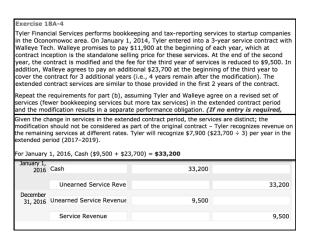
Exercise 18A-4

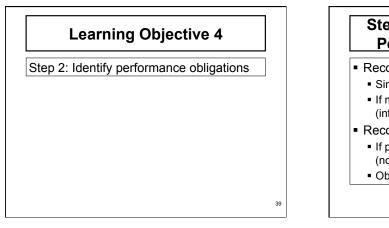
Exercise 194-9 Tyler Financial Services performs bookkeeping and tax-reporting services to startup companies in the Oconomowoc area. On January 1, 2014, Tyler entered into a 3-year service contract with Walleye Tech. Walleye promises to pay \$11,900 at the beginning of each year, which at contract inception is the standalone selling price for these services. At the end of the second year, the contract is modified and the fee for the third year of services is reduced to \$9,500. In addition, Walleye agrees to pay an additional \$23,700 at the beginning of the third year to cover the contract for 3 additional years (i.e., 4 years remain after the modification). The xtended contract services are similar to those provided in the first 2 years of the contract

re the journal entries for Tyler in 2014 and 2015 related to this service contract. (If no entry is requ t "No Entry" for the account titles and enter 0 for the amounts. Credit account titles are natically indenet when the amount is entered. Do not indent manually.)

Date	Account Titles and Explanatio	n Debit	Credit
January 1, 2014	Cash	11,900	
	Unearned Service Reve		11,900
December 31, 2014	Unearned Service Revenue	11,900	
	Service Revenue		11,900
January 1, 2015	Cash	11,900	
	Unearned Service Reve		11,900
December 31, 2015	Unearned Service Revenue	11,900	
	Service Revenue		11,900

Exercise 1	8A-4			
in the Ocon Walleye Teo contract inc year, the co addition, W cover the co extended co Prepare the	omowoc area. On January 1, ch. Walleye promises to pay 3 eption is the standalone selli nntract is modified and the fe alleye agrees to pay an additi ontract for 3 additional years ontract services are similar to journal entries for Tyler in 2	zeping and tax-reporting services to startup companies 2014. Tyler entered into a 3-year service contract with \$11,900 at the beginning of each year, which at ng price for these services. At the end of the second 6 for the third year of services is reduced to \$9,500. In ional \$23,700 at the beginning of the third year to (i.e., 4 years remain after the modification). The those provided in the first 2 years of the contract. 016 related to the modified service contract, assuming <i>required</i> , select "No Entry" for the account titles		
a prospective approach. (If no entry is required, select "No Entry" for the account titles and anuary 1, 2016 Cash (\$9,500 + \$23,700) = \$33,200 December 31, 2016 Unearned Service Revenue (\$33,200 ÷ 4) = \$8,300 In this case, the modification of the contract does not result in new performance obligation. As a result, the remaining service revenue is recognized evenly over the remaining four years.				
2016	Cash	33,200		
2010				
	Unearned Service Reve	33,200		
December 31, 2016	Unearned Service Revenue	8,300		
	Service Revenue	8,300		
		37		





Step 2: Identifying Separate Performance Obligations Record one performance obligation

- Single product / service is provided
- If multiple obligations not separable (interdependent and interrelated)
- Record many performance obligations
 - If products / services are separable (not highly dependent or interrelated)
 - Obligations optional, sold at market price

Example: One Performance Obligation

SoftTech Inc. licenses customer-relationship software. All software requires customization that only SoftTech can provide. Does licensing and customization describe a single performance obligation or multiple performance obligations?

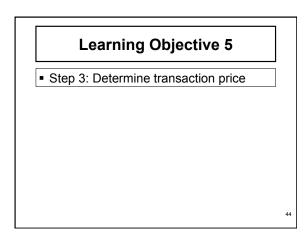
The software license and the consulting services are distinct but interdependent and interrelated; record as one performance obligation.

Example: Multiple Performance Obligations

Chen Computer sells computers that include a one-year assurance warranty. In addition, Chen separately sells an extended warranty, which provides protection for an additional three years.

Sale of computer and assurance warranty are one performance obligation because they are inseparable (interdependent and interrelated). The extended warranty is separately sold and is not interdependent or interrelated and should be recorded as a separate performance obligation.

2014. The the goods	sales price includes an insta	351,000 to Ricard Company allation fee, which is valued a n is considered a separate pe e.	t \$46,800. The fair value of
select "N	o Entry" for the account t automatically indented w .)	e sale on January 2, 2014. (I titles and enter 0 for the a when the amount is entered	mounts. Credit account
Date	Account Titles and Explanation	Debit	Credit
January 2, 2014.	Accounts Receivable	479,700	
	Sales Revenue		432,900
			46.000
	Unearned Service Reve		46,800
	Unearned Service Reve		46,800
	Unearned Service Reve		46,800



Step 3: Determining Transaction Price

- Amount of consideration we expect to receive from customer
- Variable consideration
- Noncash consideration
- Consideration paid by seller to customer

45

47

Apply TVM if more than one year

Variable Consideration

- Price dependent on future events
- Estimate revenue
- Expected value: Probability-weighted
- Most likely amount: Single outcome

Use most reasonable, reliable, objective estimate

Peabody Construction Company enters into a contract with a customer for \$100,000 and a performance bonus of \$50,000 based upon completion date. Bonus decreases by \$5,000 per week after target completion date.

Peabody has completed many contracts with performance bonuses in the past, and Peabody believes it can reliably and objectively estimate future performance on this contract.

Management estimates there is a 60% probability contract will be completed by target date, a 30% probability it will be completed 1 week late, and a 10% probability it will be completed 2 weeks late.

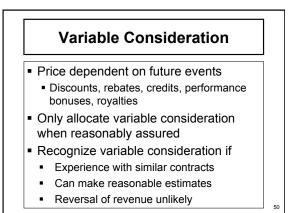
Estimating Variable Consideration **Probability-Weighted Method** \$100,000 + 50,000 60% \$90,000 = × \$43,500 \$100,000 + 45,000 × 30% = \$14,000 \$100,000 + 40,000 10% = × \$147,500 Most Likely Outcome Method \$150,000 Management selects more reliable, objective estimate

Brief Exercise 18A-5

Nair Corp. enters into a contract with a customer to build an apartment building for \$1,005,000. The customer hopes to rent apartments at the beginning of the school year and provides a performance bonus of \$189,000 to be paid if the building is ready for rental beginning August 1, 2015. The bonus is reduced by \$63,000 each week that completion is delayed. Nair commonly includes these completion bonuses in its contracts and, based on prior experience, estimates the following completion outcomes:

Completed by	Probability			
August 1, 2015	70 %		1.194 =	
August 8, 2015	20			
August 15, 2015	5		1,131 =	
After August 15, 2015	5		1,068 =	
Determine the transaction	n price for this d	contract.	1,005 =	1
Total transaction price	\$ 1	,165,650		
Completion Date	Р	robability	/	
August 1	70% cha	nce of \$1,	194,000	=
August 8	20% cha	nce of \$1,	131,000	=
August 15	5% cha	nce of \$1,	068,000	=
After August 15	E0/	nce of \$1,	005 000	=

\$1,165,650



Exercise 18A-1

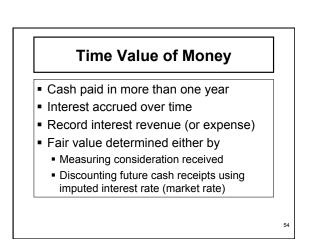
Jupiter Company sells goods to Danone Inc. on account on January 1, 2014. The goods have a sales price of \$585,600 (cost \$480,000). The terms of the sale are net 30. If Danone pays within 5 days, it receives a cash discount of \$9,600. Past history indicates the cash discount will be taken.

Prepare the journal entries for Jupiter for January 1, 2014. (If no entry is required, select "No Entry" for the account titles and enter 0 for the amounts. Credit account titles are automatically indented when the amount is entered. Do not indent manually.)

Account Titles and Explanation	n Debit	Credit
Accounts Receivable	576,000	
Sales Revenue		576,000
(To record the sale)		
Cost of Goods Sold	480,000	
Inventory		480,000
(To record cost of goods sold)		

count Titles and Explanation	Debit	Credit
ash	585,600	
Sales Discounts Forfeite		9,600
Accounts Receivable		576,000
payment is received after 5 days, J		alaa mayaanya and to co

Exercise 1	18A-6								
commissio for as long not have a these type	n of \$15 as the p ny rema s of polic	0. In addition policyholder d ining perform cies, it estima	n, Aaron will loes not can nance obliga ates that pol	receive a cel the po tions. Bas icyholders	n additio licy. Afte ed on Aa on aver	surance Compa nal commissio r selling the pu ron's significa age renew the r behavior will	n of \$: olicy, / nt exp policy	30 each Aaron c erience / for 5.	loes with
Determine	the tran	saction price	of the arrar	igement f	or Aaron	, assuming 15	0 polic	ies are	sold.
Transactio	n price	\$	47	,250					
				he 150 pc	licies ar	e sold in Janua	ry 20	14 and	
		nmissions fro and enter		\$22.50	0 =	\$150	×	150	or call
			o for the a	+,	-	+			
		ne amount is		\$24,75		\$30 × 5.5	×	150	can
	when th Account	ne amount is Titles and			0 =		×	150	
Date January,	when th Account Explana	ne amount is Titles and		\$24,75	0 =		×	150	
Date January,	when th Account Explana	ne amount is Titles and		\$24,75	0 = 0		×	150	
Date January,	when th Account Explana Cash	ne amount is Titles and	s entered.	\$24,75	0 = 0 22	\$30 × 5.5	×	150	



Sanchez Co				
upfront cas Product B v	h payment of \$216,000). Product A ars (January	will be delivered in 2 y (2, 2019). Sanchez Co	n January 2, 2014, for an years (January 2, 2016) and o. allocates the \$216,000 to ws.
	Standalone Selling Prices	Percent Allocate		
Product A	\$ 57,600	25%	\$ 54,000	
Product B	172,800	75%	162,000	
	\$230,400		\$216,000	
	Account Titles and		Debit	Credit
Date E	Account Titles and Explanation		Debit	Credit
Date December		1	Debit 13,738	
Date December	Explanation Interest Expense	T.		
Date December	Explanation	F		
Date E December 31, 2015	Explanation Interest Expense	E		
Date E December 31, 2015	Explanation Interest Expense Interest Payable To record interest on the	E		

Exercise	18A-9							
Sanchez Co. enters into a contract to sell Product A and Product B on January 2, 2014, for an upfront cash payment of \$216,000. Product A will be delivered in 2 years (January 2, 2016) and Product B will be delivered in 5 years (January 2, 2019). Sanchez Co. allocates the \$216,000 to Products A and B on a relative standalone selling price basis as follows.								
	Standalone Selling Prices	Percent Allocated	Allocated Amounts					
Product A	\$ 57,600	25%	\$ 54,000					
Product B	172,800	75%	162,000					
	\$230,400		\$216,000					
Interest Payable ([$$12,960 + $13,738$] × 25%) = \$6,675 Note: Interest will continue to accrue on product B over the next 3 years.								
Date	Account Titles and Explan	nation	Debit	Credit				
January 2, 2016	Unearned Sales Revenue	2	54,000					
	Interest Payable		6,675					
	Sales Revenue			60,675				
	(To record revenue on transf product A)	er of						

Brief Exercise 1							
	8A-8						
On March 1, 2014, Parnevik Company sold goods to Goosen Inc. for \$727,300 in exchange for a 5-year, CM March 1, 2014, Parnevik Company sold goods to Goosen Inc. for \$727,300 in exchange for a 5-year, distribution of \$441,000. Proper the journal entries for Parnevik's books of \$441,000. Proper the journal entries for Parnevik on (a) March 1, 2014, and (b) December 31, 2014. (If no entry is required, select 'No Entry' for the account tiltes and enter 0 for the amounts. Credit account of December 31, 2014. (If no december 31, 2014, Company and Company and Company and Company and Company of December 31, 2014, Company and Company and Company and Company and Company of December 31, 2014, Company and Company and Company and Company of December 31, 2014, Company and Company and Company and Company of December 31, 2014, Company and Company and Company and Company of December 31, 2014, Company and Company and Company and Company of December 31, 2014, Company and Company and Company and Company of December 31, 2014, Company and Company and Company and Company of December 31, 2014, Company and Company and Company and Company of December 31, 2014, Company and Company and Company and Company of December 31, 2014, Company and Company and Company and Company of December 31, 2014, Company and Company and Company and Company of December 31, 2014, Company and Company and Company and Company of Company and Company and Company and Company and Company of Company and Company and Company and Company and Company of Company and Company and Company and Company and Company of Company and Company and Company and Company and Company of Company and Company and Company and Company and Company of Company and Company and Company and Company and Company of Company and Company and Company and Company and Company and Company of Company and Company and Company and Company and Company and Company and Company and Company and Company and Company and Company and Company and Company and Company and Company and Company and Company and Company and Company							
Date	Account Titles and Explanation	tion	Debit	Credit			
March 1, 2014	Notes Receivable		1,068,600				
Parnevik should record revenue of \$727,300 on March 1, 2014, which is the fair value of the inventory in this case. Parnevik is also financing this purchase and records interest revenue on the note over the 5-year period. In this case, the interest rate is imputed to be 8% ([$\$727,300 / \$1,068,600$] = 0.68061, which is the PV of \$1\$ factor for n = 5, I = 8%). Parnevik records interest revenue of \$48,487 (8% X \$727,300 × 10/12) at December 31, 2014. As a practical expedient, companies are not required to reflect the time value of money to determine the transaction price if the time period for parametis less than a year.							
uetermine the	cransaccion price n'ene		or payment is less than	h a year.			
December 31, 2014			48,487	n a year.			
				48,487			

Sanchez Co. enters into a contract to sell Product A and Product B on January 2, 2014, for an upfront cash payment of \$216,000. Product A will be delivered in 2 years (January 2, 2016) and Product B will be delivered in 5 years (January 2, 2019). Sanchez Co. allocates the \$216,000 to Products A and B on a relative standalone selling price basis as follows.							
	Standalone	Percen					
Product A	Selling Prices \$ 57,600	25%	\$ 54,000				
Product P		75%	162,000				
i i oddoc b	\$230,400	, , , , ,	\$216,000				
January 2,	ber 31, 2014 Inte	erest E	xpense (\$216,000	0 × 6%) = \$12,960			
2011			,				
	Unearned Sales Reven	ι		216,000			
	(To record upfront payment for sales of products A and B)	r					
December							
31, 2014	Interest Expense		12,960				
	Interest Payable			12,960			
	(To record interest on the con liability)	tract					

Date	Account Titles and Explanatio	n	Debit	Credit
January 2, 2014	Notes Receivable		14,700	
	Discount on Notes Rece			90
	Sales Revenue			13,80
	(To record Adani Inc's sale to Geo	Company)		
anuary 2, 2014	Cost of Goods Sold		6,398	
	Inventory			6,39
	(To record cost of goods sold)			
iow much total r	evenue should be recognized i	n 2014?		
otal revenue	\$ 14,700	Sales rev	enue	\$13,800
		Interest r	evenue (\$14,700 - \$13,8	00) 900
			evenue	\$14,700

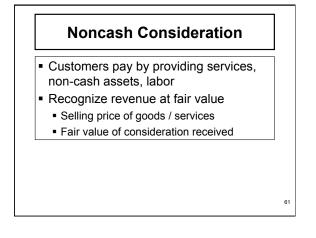
Brief Evercice 184-7

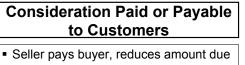
Exercise 18A-9

Brief Exercise 18	A-8			
zero-interest-bear of \$441,000. Prepa entry is required titles are automa	Parnevik Company sold goi ing note in the face amount are the journal entries for Pa , select "No Entry" for th ntically indented when th , e.g. 5,275. For calculati	of \$1,068,600. arnevik on (a) f e account title e amount is e	The goods have an invento March 1, 2014, and (b) Dece and enter 0 for the am Intered. Do not indent ma	ry cost on Parnevik's books ember 31, 2014. (If no ounts. Credit account nually. Round answers to
Date	Account Titles and Explanat	ion:	Debit	Credit
March 1, 2014	Notes Receivable		1,068,600	
	Sales Revenue			727,300
	Discount on Notes Rece			341,300
	(To record Parnevik's sale to Go	osen Company)		
	Cost of Goods Sold		441,000	
	Inventory			441,000
	(To record cost of goods sold)			
December 31, 2014	Discount on Notes Receiva		48,487	
	Interest Revenue			48,487
	See s	olution o	n next page	56

I

Exercise 18A-9





- Discounts, volume rebates, coupons
- Record consideration received and revenue recognized at net amount
- Record net amount if probable, does not need to have actually occurred

 Brief Exercise 18A-10

 Manual Company sells gods to Nolan Company during 2014. It offers Nolan the following rebates based on total sales to Nolan. If total sales to Nolan are 7,500 units, it will grant a rebate of 2%. If it sells up to 14,500 units, it will grant a rebate of 4%. If it sells up to 21,000 units, it will grant a rebate of 4%. If it sells up to 21,000 units, it will grant a rebate of 4%. If it sells up to 21,000 units, it will grant a rebate of 4%. If it sells up to 21,000 units, it will grant a rebate of 5125,000. Manual, based on past experience, has sold over 41,000 units to Nolan at a sales price of 5125,000. Manual, based on past experience, has sold over 41,000 units to Nolan, and these sales normally take place in the third quarter of the year. Prepare the journal entry that Manual should make to record the sale of the 12,500 units in the first quarter of the year on account. (If no entry is required, select "No Entry" for the account titles and enter 0 for the samounts. Credit account titles and Explanation

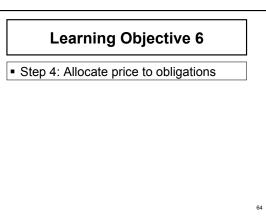
 Account Titles and Explanation
 Debit

 Accounts Receivable
 117,500

 Sales Revenue
 117,500

 Sales Revenue (\$125,000 × 94%) = \$117,500

 Manual reduces revenue by \$7,500 (\$125,000 - \$117,500) because it is probable that it will provide rebates amounting to 6%. As a result, Manual recognized revenue of \$117,500.



Step 4: Allocate Transaction Price to Obligations

- More than one performance obligation
- Allocate based on relative fair values
- Standalone selling price method
- Fair value = Value of goods or services if sold separately

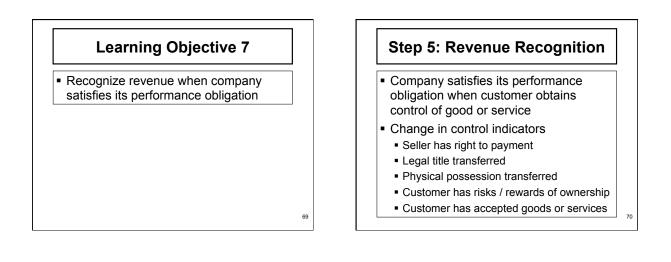
65

Step 4: Allocate Transaction Price to Obligations

- If standalone selling prices not available
 - Adjusted market assessment approach
 - Expected cost plus a margin approach
 - Residual approach



Exercise 18A	-13							
Appliance Cen of services tog ovens on a sta services for ov	ter is an ex gether with andalone ba vens. Howe	the home appliance Cover, Appliance Cove	e appliance deale ances that it sell center also sells center does not o vendors. Pricing	s. Assume installation offer instal	that App service lation or	bliance Ce s and mai maintena	nter inten	sells ance
Oven only			\$1,30	50				
Oven with inst	tallation ser	vice	1,44	15				
Oven with ma			1,6	58				
Oven with inst	tallation and	d maintenance s	ervices 1,70	00				
			t at \$298. Additi ximates the am					
by Appliance (parties. Ovens installation an service satisfa exceeds \$1,36 Assume that a \$1,700. Indica	Center for in s are sold so d/or maintent ictorily, the 50. customer p ite the amo	nstallation appro ubject to a gene enance services, customer is onl purchases an ov unt of revenue to	oximates the am ral right of retur in the event Ap y entitled to a ro en with both ins that should be a	ount charg n. If a cus pliance Ce efund of th tallation a	ged by in stomer pr enter doe re portion nd maint	depender urchases s not com n of the fe cenance se	nt thi an ov npleto e tha ervio	rd ven with e the at es for
by Appliance (parties. Ovens installation an service satisfa exceeds \$1,36 Assume that a \$1,700. Indica	Center for in s are sold so d/or maintent ictorily, the 50. customer p ite the amo	nstallation appro ubject to a gene enance services, customer is onl purchases an ov	oximates the am ral right of retur in the event Ap y entitled to a ro en with both ins that should be a	ount charg n. If a cus pliance Ce efund of th tallation a	ged by in tomer prenter doe to portion nd maint the over	depender urchases s not com n of the fe cenance se	nt thi an ov nplete ee tha ervic tallat	rd ven with e the at es for tion, and
by Appliance (parties. Ovens installation an service satisfa exceeds \$1,36 Assume that a \$1,700. Indica to the mainten	Center for in s are sold so d/or maintent ictorily, the 50. customer p ite the amo	nstallation appro ubject to a gene enance services, customer is onl purchases an ov unt of revenue to	oximates the am ral right of retur in the event Ap y entitled to a ro en with both ins that should be a	ount charg rn. If a cus pliance Ce efund of th tallation a <u>llocated to</u> \$1,360	ged by in stomer por enter doe ne portion nd maint the over / \$1,743	depender urchases a s not com n of the fe cenance so n, the inst	nt thi an own pleto ee tha ervico tallat	rd ven with e the at es for tion, and
by Appliance (parties. Ovens installation an service satisfa exceeds \$1,36 Assume that a \$1,700. Indica	Center for in s are sold so d/or maintent ictorily, the 50. customer p ite the amo	nstallation appro ubject to a gene enance services, customer is onl purchases an ov unt of revenue to	oximates the am ral right of retur in the event Ap y entitled to a ro en with both ins that should be a w Oven	ount charg n. If a cus pliance Ce efund of th tallation a llocated to \$1,360 \$85 *	ged by in stomer pi enter doe ie portion nd maint the over / \$1,743 / \$1,743	depender urchases a s not com n of the fe m, the inst 8 × \$1,700	nt thi an ov ppleto ee tha ervic tallat	rd ven with e the at es for cion, and \$1,326 \$83
by Appliance (parties. Ovens installation an service satisfa exceeds \$1,36 Assume that a \$1,700. Indica to the mainten	Center for in s are sold so d/or mainter totorily, the 50. customer p the the amo- hance contra	nstallation appro- ubject to a gene mance services, customer is onl purchases an ov unt of revenue t act. (Round an	oximates the am ral right of return in the event Ap y entitled to a ro- en with both ins that should be a sw Oven Installation	ount charg n. If a cus pliance Ce efund of th tallation a llocated to \$1,360 \$85 *	ged by in stomer pi enter doe ie portion nd maint the over / \$1,743 / \$1,743	depender urchases a s not com n of the fe cenance se n, the inst 8 × \$1,700 8 × \$1,700	nt thi an ov ppleto ee tha ervic tallat	rd ven with e the at es for cion, and \$1,326 \$83



Five Steps of Revenue Recognition					
Step 1	Description	Implementation			
Identify contract with customers	A contract is an agreement that creates enforceable rights or obligations	A company applies revenue guidance to contracts with customers and must determine if new performance obligations are created by a contract modification			

Step 2	Description	Implementation
Identify separate performance obligations in contract	A performance obligation is a promise in a contract to provide a product or service to a customer. A performance obligation exists if customer can benefit from good or service on its own or together with other readily available resources.	A contract may be comprised of multiple performance obligations. Accounting is based on evaluation of whether product or service is distinct within contract. If each of goods or services is distinct, but is interdependent and interrelated, these goods and services are combined and reported as one performance obligation.

Step 3	Description	Implementation
Determine transaction price	Transaction price is amount of consideration that a company expects to receive from a customer in exchange for transferring goods and services.	In determining transaction price, companies considers 1. Variable consideration 2. Time value of money 3. Noncash consideration 4. Consideration paid or payable to customer

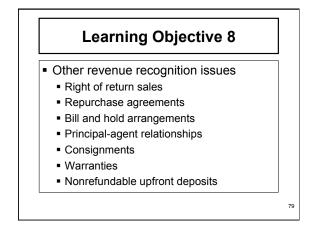
Best measure of fair value is
ligation ransaction relative fair
t

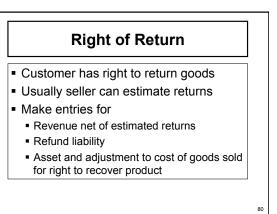
Step 5	Description	Implementation
Recognize revenue when each performance obligation is satisfied	A company satisfies its performance obligation when customer obtains control of good or service.	Companies satisfy performance obligations either at a point in time or over a period of time. Companies recognize revenue over a period of time if 1. Customer controls asset as it is created or company does not have an alternative use for asset 2. Company has a right to payment

Exercise	18A-7						
On June 3, 2014, Hunt Company sold to Ann Mount merchandise having a sales price of \$8,480 (cost \$5,936) with terms of 2/10, n/50, f.o.b. shipping point. Hunt estimates that merchandise with a sales value of \$848 will be returned. An invoice totaling \$127, terms n/30, was received by Mount on June 8 from Olympic Transport Service for the freight cost. Upon receipt of the goods, on June 5, Mount notified Hunt that \$318 of merchandise contained flaws. The same day, Hunt issued a credit memo covering the defective merchandise and asked that it be returned at Hunt's expense. Hunt estimates the returned items to have a fair value of \$127. The freight on the returned merchandise was \$25, paid by Hunt on June 7. On June 12, the company received a check for the balance due from Mount.							
Date	Account Titles and Explanation	Debit	Credit				
June 3, 2014	Accounts Receivable	8,480					
	Refund Liability		848				
	Sales Revenue		7,632				
	(To record sale)						
	Estimated Inventory Retur	594					
	Cost of Goods Sold	5,342					
	Inventory		5,936				
	(To record cost of goods sold)						
June 3, I	2014 Estimated Inventory	/ Returns (5,936 ÷ 8,48	30) × \$848 = \$594				

Exercis	se 18A-7			
(cost \$! with a s Mount o on June issued a expense returne	a 3, 2014, Hunt Company sol 5,936) with terms of 2/10, n/ ales value of \$848 will be ret on June 8 from Olympic Trans 5, Mount notified Hunt that a credit memo covering the d . Hunt estimates the returne d merchandise was \$25, paid or the balance due from Mour	60, f sport \$318 efect d ite by F	f.o.b. shipping point. Hunt es ed. An invoice totaling \$127, Service for the freight cost. 8 of merchandise contained fit tive merchandise and asked tems to have a fair value of \$1	timates that merchandise terms n/30, was received by Upon receipt of the goods, aws. The same day, Hunt that it be returned at Hunt's L27. The freight on the
June 5,				
2014	Refund Liability		318	
	Accounts Receivable			318
	(To record Refund Liability)			
	Returned Inventory		127	
	Estimated Inventory Re			127
	(To record Estimated Inventory Returns)			

LACICI	se 18A-7			
(cost \$ with a s Mount o on June issued expens returne check f	e 3, 2014, Hunt Company sol 5,936) with terms of 2/10, n/ sales value of \$484 will be rei on June 8 from Olympic Trans e 5, Mount notified Hunt that a credit memo covering the d e. Hunt estimates the returns d merchandise was \$25, paic for the balance due from Moui	60, f turne sport \$318 lefect ed ite I by H	i.o.b. shipping point. Hunt es id. An invoice totaling \$127, i Service for the freight cost. of merchandise contained fl ive merchandise and asked t ms to have a fair value of \$1	timates that merchandise terms n/30, was received by Upon receipt of the goods, aws. The same day, Hunt hat it be returned at Hunt's 27. The freight on the
June 7, 2014	Delivery Expense		25	
	Cash			25
	(To record delivery cost)			
une 12, 2014	Cash		7,999	
	Sales Discounts		163	
	Accounts Receivable			8,162
	(To record payment)			
	12, 2014 Sales Discount	- (2	0/	= \$163





Right of Return

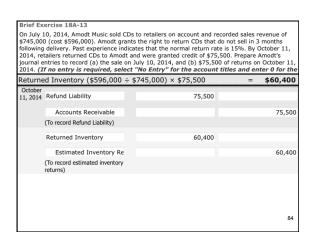
- Customer has right to return goods
- If seller can estimate returns record
 - Revenue net of estimated returns
 - Refund liability
 - Asset and adjustment to cost of goods sold for right to recover product

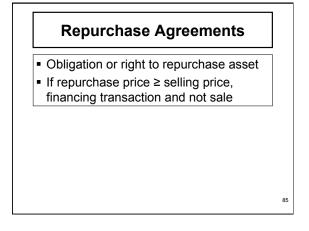
81

Right of Return

- Customer has right to return goods
- Estimate of returns not possible
- Revenue and cost recognition delayed until uncertainty resolved

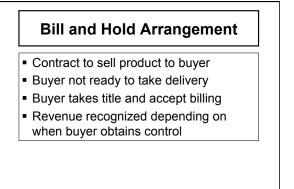
D. L.C.F.	xercise 18A-13			
\$745,00 followin 2014, re	00 (cost \$596,000). Amodt grant g delivery. Past experience indic etailers returned CDs to Amodt a	s to retailers on account and recorded ts the right to return CDs that do not s sates that the normal return rate is 15 and were granted credit of \$75,500. Pr July 10, 2014, and (b) \$75,500 of ret	sell in %. By repare	3 months October 11, Amodt's
		t "No Entry" for the account titles		
Refund	l Liability (15% × \$745,000	0)	=	\$111,750
Estima	ted Inventory Returns (\$59	96,000 ÷ \$745,000) × \$111,750) =	\$89,400
Date	Account Titles and Explanation	Debit	Cr	edit
July 10 ,2014	Accounts Receivable	745,000		
	Refund Liability			111,750
	Sales Revenue			633,250
	(To record the sale)			
	Cost of Goods Sold	506,600		
	Estimated Inventory Retur	89,400		
	Inventory			596,000
	(To record cost of goods sold)			

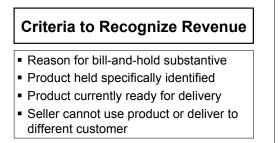


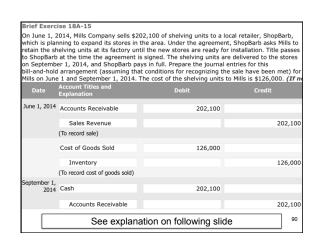


	Account Titles and Explanation	Debit	Credit
July 1, 2014	Cash	42,000	
	Liability to Enyart Comp		42,00
control o the asse	If the asset and therefore this a t is not removed from the book		ction and not a sale. Thu
control o	f the asset and therefore this a	greement is a financing transa	
Date	f the asset and therefore this a t is <i>not</i> removed from the book Account Titles and Explanation	greement is a financing transa s of Cramer.	ction and not a sale. Thu
Date	f the asset and therefore this a t is <i>not</i> removed from the book Account Titles and Explanation	greement is a financing transa s of Cramer. Debit	ction and not a sale. Thu

Exercise 18A-16 Cramer Corp. sells idle machinery to Enyart Company on July 1, 2014, for \$40,400. Cramer agrees to repurchase this equipment from Enyart on June 30, 2015, for a price of \$42,824 (an imputed interest rate of 6%). Prepare the journal entry for Cramer when the machinery is repurchased on June 30, 2015 Date Account Titles and Explanation Debit Credit June 30, 2015 Interest Expense 1,212 Liability to Envart Com 1,212 (To record interest) June 30, 2015 Liability to Enyart Compan 42,824 Cash 42,824 (To record Enyart's liability related to interest expenses) Liability to Enyart Company ($$40,400 \times 6\% \times 1/2$) = \$1,212 Cash (\$40,400 + \$1,212 + \$1,212) \$42.824 =







Brief Exerc	ise 18A-15		
		be met. As a result, revenue ned. Mills makes the following	
addition, if o		fore payment, the accounts re violated, revenue recognition	
Date	Account Titles and Explanation	Debit	Credit
June 1, 2014	Accounts Receivable	202,100	
	Sales Revenue		202,100
	(To record sale)		
	Cost of Goods Sold	126,000	
	Inventory		126,000
	(To record cost of goods sold)		
September 1, 2014	Cash	202,100	
	Accounts Receivable		202,100
			91

Principal-Agent Relationships

Principal

- Provide goods/services to customer
- Recognizes revenue when goods/services are sold to customer
- Agent
 - Arrange for principal to provide goods/ services to customer
 - Total collected not revenue (portion to prin)

92

Recognizes commission revenue

Principal-Agent Relationships Examples

- Travel Company (agent) makes booking for Cruise Company (principal)
- Priceline (agent) arranges car rentals for Hertz (principal)
- Kayak (agent) books air travel for United Airlines (principal)

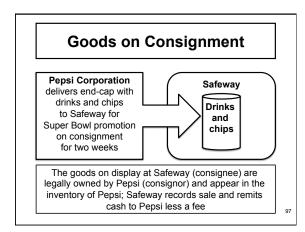
employees. The total cruise package receives a commission of 5% of the Prepare the journal entry to record t	total price. Travel Inc. the remittance and reven	erefore remits \$72 ue recognized by T	,675 to ShipA ravel Inc. on t	way. his
transaction. (If no entry is require for the amounts. Credit account is entered. Do not indent manually.	titles are automatically			
Account Titles and Explanation	Debit	Credit		
Accounts Payable	76,500			
Sales Revenue			3,825	
Cash			72,675	
Accounts Payable (Sh	ipAway Cruise	Lines) =	\$76,5	00
Sales Revenue (\$76,5	500 × 5%)	=	\$3,8	25

Goods on Consignment

93

- Form of principal-agent relationship
- Consignor is principal
- Consignee is agent





Company paid \$690 for local ad end, 60% of the merchandise ha 0% commission, and remitted th h is received. <i>(If no entry is re</i>	vertising, which ad been sold for ne cash due to Ja equired, select	s \$21,000. nsen. Prepare " No Entry "
Debit	Cre	ait
18,210		
690		
2,100		
		21,000
20,280		
		20,280
\$21,000 × 10%)]	=	\$18,210
t[60% × (\$31,000 + \$	= [2,800]	\$20,280
	Company paid \$690 for local ad end, 60% of the merchandlae h 1% commission, and remitted th h is received. (<i>If no entry is re</i> Debit 18,210 690 2,100 20,280 \$21,000 × 10%)]	18,210 690 2,100 20,280

Exercise 18A-19						
On May 3, 2014, Eisler Company consigned 96 freezers, costing \$590 each, to Remmers Company. The cost of shipping the freezers amounted to \$890 and was paid by Eisler Company. On December 30, 2014, a report was received from the consignee, indicating that 48 freezers ha been sold for \$890 each. Remittance was made by the consignee for the amount due after deducting a commission of 6%, advertising of \$230, and total installation costs of \$340 on the freezers sold.						
Compute the inventory value of the units unsold in the hands of the consignee to 0 decimal places, e.g. 5,275.)	. (Round answer					
Inventory value of the units \$ 28,765						
Inventoriable costs:						
96 units shipped at cost of \$590 each	\$56,640					
Freight	890					
Total inventoriable cost	\$57,530					
48 units on hand (48/96 \times \$57,530)	\$28,765					
	99					
1						

X	ercis	е	18A	-1	9
	Max	2	201	4	Fieler

On May 3, 2014, Eisler Company consigned 96 freezers, costing \$590 each, to Remmers Company. The cost of shipping the freezers amounted to \$890 and was paid by Eisler Company. On December 30, 2014, a report was received from the consignee, indicating that 48 freezers had been sold for \$890 each. Remittance was made by the consignee for the amount due after deducting a commission of 6%, advertising of \$230, and total installation costs of \$340 on the freezers sold.

Compute the profit for the consignor for the units sold. (Round answer to 0 decimal places, e.g. 5,275.)

ofit for the consignor	\$ 10,822
ofit for the consignor	\$ 10,822

Computation of consignment profit:	
Consignment sales ($48 \times \$890$)	\$42,720
Cost of units sold (48/96 × \$57,530)	(28,765)
Commission charged by consignee ($6\% \times $42,720$)	(2,563)
Advertising cost	(230)
Installation costs	(340)
Profit on consignment sales	\$10,822
	100

Exercise 1	8A-19				
Company. T On Decemb been sold fo	er 30, 2014, a repo r \$890 each. Remit commission of 6%,	the freezers amount rt was received fre tance was made b	unted to \$8 om the cons by the consi	90 and was pa signee, indicati gnee for the a	id by Eisler Company. ng that 48 freezers had
	ne amount of cash <i>laces, e.g. 5,275</i>		itted by th	e consignee.	(Round answer to 0
Remittance	e from consignee	\$	39,587		
Remitt	ance of co	onsignee:			
Consig	nment sa	les			\$42,720
Less:	Commiss	sions	5	\$2,563	
	Advertisi	ing		230	
	Installati	on		340	3,133
Remitt	ance from	consigne	ee		\$39,587
					101

Warranties
Assurance-type
 Included in sales price of product
Inseparable from product
 Not separate performance obligation
Service-type
 Not included in sales price of product
 Sold separately
 Separate performance obligation

Exercise 18A-20		
Grando includes a 1-year assu customer receives and pays for	to Company sells production equipm rance warranty service with the sal r the equipment on December 31, 2 quipment and \$1,560 for the cost o	e of all its equipment. The 2014. Grando estimates the
Account Titles and Explanat	ion Debit	Credit
Cash	65,000	
Warranty Expense	1,560	
Warranty Liability		1,560
Sales Revenue		65,000
Cash (\$63,4	40 + \$1,560)	= \$65,000
		103

5		
Exercise 18A-20 On December 31, 2014, Grando Co Grando includes a 1-year assurance customer receives and pays for the prices to be \$63,440 for the equipm	e warranty service with the sale equipment on December 31, 2	e of all its equipment. The 2014. Grando estimates the
Repeat the requirements for (a), as sold an extended warranty (service \$1,040. <i>(If no entry is required,</i>	e-type warranty) for an addition	nal 2 years (2016-2017) for
Account Titles and Explanation	Debit	Credit
Cash	66,040	
Warranty Expense	1,560	
Warranty Liability		1,560
Sales Revenue		65,000
Unearned Warranty Rev		1,040
Grando should recognize	\$520 of warranty reve	nue in 2016 and 2017.
Cash (\$63,440 + \$1,560	+ \$1,040) = \$66,040	
		104

Nonrefundable Upfront Fees

- Payments from customers before
 - Delivery of a product
 - Performance of a service
- Initiation, membership, or setup fee
- Usually nonrefundable
- Allocated over periods benefitted
- Examples
 - Membership fee in a health club, Costco
 - Activation fees for phone, Internet, cable

Presentation and Disclosure

Contract Assets: Two Types

- Accounts Receivable
 - All performance obligations fulfilled
 - Unconditional rights to consideration
- Contract Asset
 - One performance obligation has fulfilled
 - Other obligations must be fulfilled
 - Conditional rights to consideration

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Contract Assets: Two Types

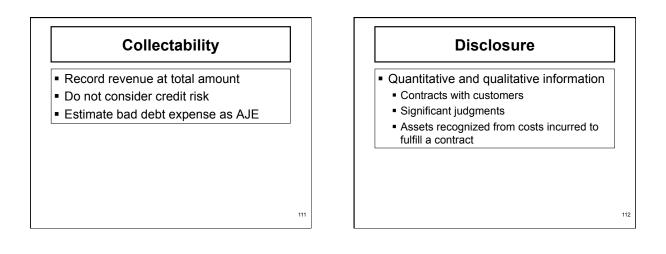
Description	Debit	Credit
Contract Asset	20,000	
Sales Revenue		20,000
Completed one of two performance obligations		

Description	Debit	Credit
Accounts Receivable	50,000	
Contract Asset		20,000
Sales Revenue		30,000
Completed second performance obligation		

Unearned Revenue (lia	ability)	
 Customer has prepaid 		
 Obligation to provide fut 	ture goods/ser	vices
Description	Debit	Credit
Description Cash	Debit 80,000	Credit
•	=	Credit 80,000

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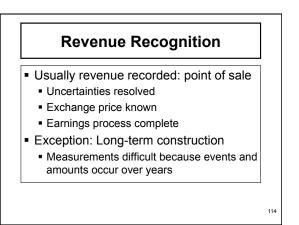
Date	Account Titles and Explanation	Debit	Credit
May 1, 2014	No Entry	0	
	No Entry		
June 15, 2014	Cash	27,500	
	Unearned Sales Revenu		27,5
September 30, 2014	Unearned Sales Revenue	27,500	
	Sales Revenue		27,5



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Learning Objective Appendix A

Long-Term Construction Contracts

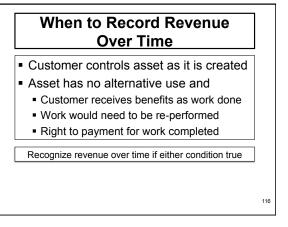


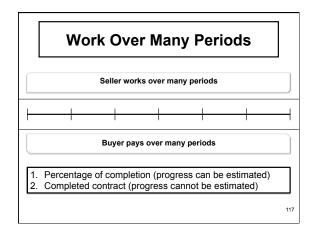
Long-Term Contracts

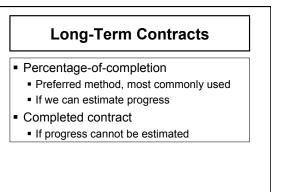
- Many periods required to finish project
- Example: Construction contractor pours concrete for SFO expansion, five years
- Wait until complete to recognize rev?
 - No revenue, expense for first four yearsAll revenue, expense in year five
- Income statement should reflect activity even though delivery has not occurred

115

119

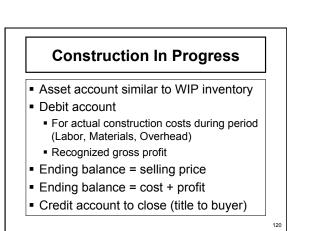




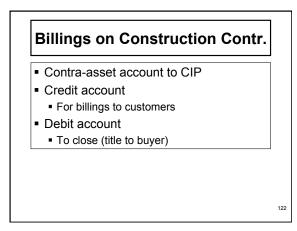


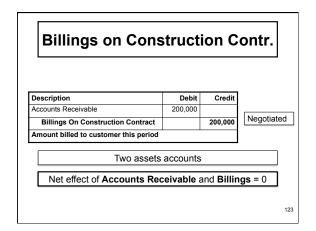
New Accounts

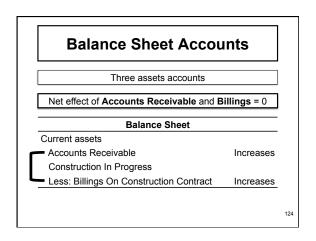
- Construction In Progress
- Billings On Construction Contract
 - Billings On Construction In Process
- Cost Of Construction
- Revenue From Long-term Contracts

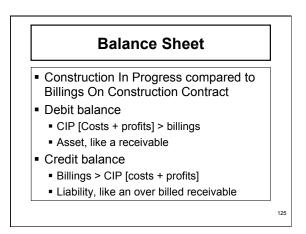


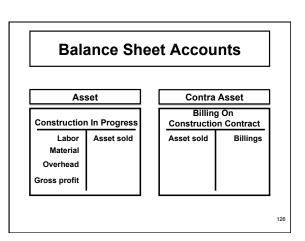
C	onstructio	n in Pr	ogres	S
Description		Debit	Credit	
Construction	In Progress	250,000		
Cash, Supp	blies Inventory, Etc		250,000	Actual work
	Description		Debi	t Credit
Expense	Cost Of Construction		250,000)
Asset	Construction In Progr	ess	30,000)
Revenue	Revenue From Long	-term Contracts		280,000
			Gross profit	121





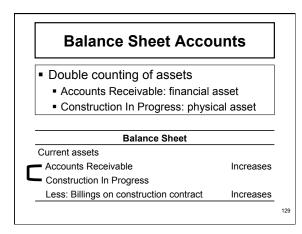






[
Balance Sheet Accou	ints
Construction In Progress > Billings, asset lik	e receivable
Balance Sheet	
Current assets	
Construction In Progress	\$500,000
Less: Billings On Construction Contract	300,000
Cost and profit in excess of billings	200,000

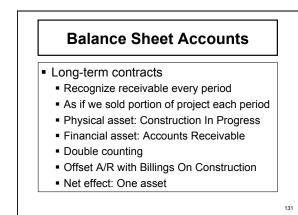
Billings > Construction In Progress, liability	/ like payable
Balance Sheet	
Current liabilities	
Billings On Construction Contract	\$700,000
Less: Construction In Progress	600,000
Billings in excess of cost and profits	100,000

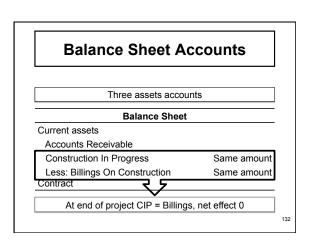


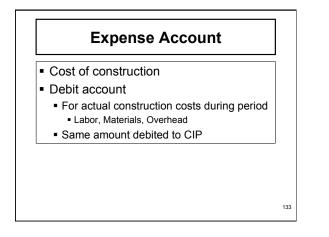
Balance Sheet Accounts

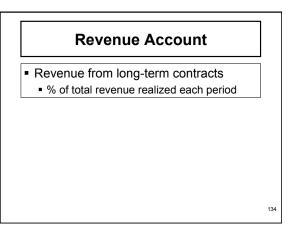
In manufacturing

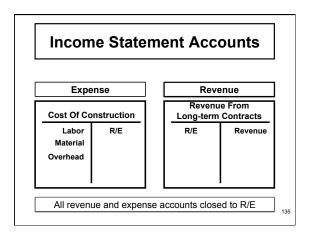
- First: Inventory (RM, WIP, FG)
- Do not recognize receivable until sale
- Inventory sold, removed from books
- Then: Accounts receivable
- Physical asset converted to financial asset
- One asset at a time

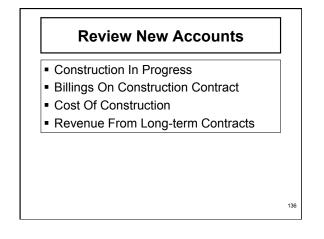


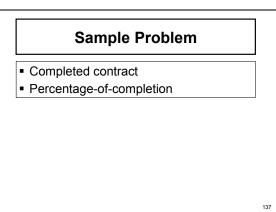


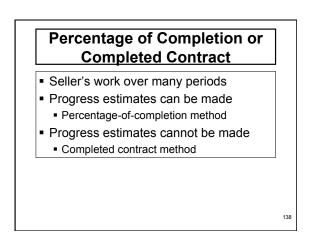


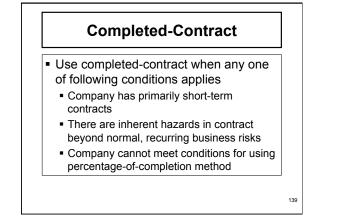












Completed Contract Method

- Companies recognize all revenue and gross profit when contract is completed
- Completed contract = Point of sale
- Journal entries
 - Accumulate contract costs in asset account
 - No interim entries to income statement for revenues, costs, or gross profit

140

142

Completed Contract Method

- Recognize revenue and expense when earnings process complete
- Income statement does not show activity of periods when revenue earned
- Only used when forecasts of costs to complete highly uncertain, impossible

141

Not preferred method: Seldom used

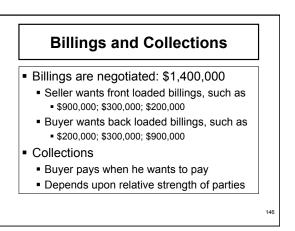
Data for Sample Problem

	2011	2012	2013
Construction costs incurred during year	\$250,000	\$550,000	\$400,000
Construction costs incurred in prior years	None	250,000	800,000
Cumulative construction costs	250,000	800,000	1,200,000
Estimated costs to complete at year end	1,000,000	425,000	None
Estimated + actual construction costs	\$1,250,000	\$1,225,000	\$1,200,000

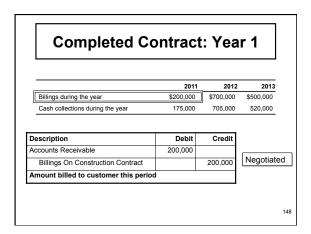
Three year project. Tot	al revenue	\$1,400,00	00.
	2011	2012	201
Construction costs incurred during year	\$250,000	\$550,000	\$400,00
Construction costs included in mice users	None	250,000	800,00
construction costs incurred in phor years		800,000	1.200.00
Cumulative construction costs	250,000	000,000	, ,
	<u>250,000</u> 1,000,000	425,000	Non

Data for Sam	pie Pr	obler	n
Three year project. Tota	al revenue	\$1,400,0	00.
	2011	2012	2013
Construction costs incurred during year	\$250,000	\$550,000	\$400,000
Construction costs incurred in prior years	None	250,000	800,000
Cumulative construction costs	250,000	800,000	1,200,000
Stimated costs to complete at year end	1,000,000	425,000	None
stimated + actual construction costs	\$1,250,000	\$1,225,000	\$1,200,000
	2011	2012	2013
Billings during the year	\$200,000	\$700,000	\$500,000
Cash collections during the year	175,000	705,000	520.000

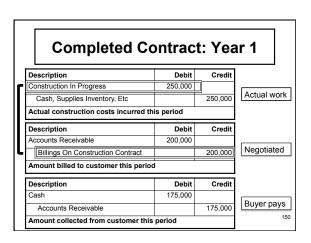
Billings and	d Colleo	ctions	5
Billings: Negotiate	d by selle	r and b	uyer
Collections: What	buyer cho	oses to	o pay
 Billings and collect 	tions		
 NOT related to rev 	enue reco	gnition	
 NOT related to explanate 	oense reco	gnition	
NOT related to act	ual costs in	ncurred	
	2011	2012	2013
Billings during the year	\$200,000	\$700,000	\$500,000
Cash collections during the year	175,000	705,000	520,000



Completed Co	nuac	c: rea	r 1
	2011	2012	2013
Construction costs incurred during year	\$250,000	\$550,000	\$400,000
Construction costs incurred in prior years	None	250,000	800,000
Cumulative construction costs	250,000	800,000	1,200,000
Estimated costs to complete at year end	1,000,000	425,000	None
Estimated + actual construction costs	\$1,250,000	\$1,225,000	\$1,200,000
Description	Debit	Credit	
Construction In Progress	250,000		
Cash, Supplies Inventory, Etc		250,000	Actual w

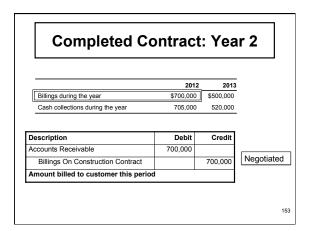






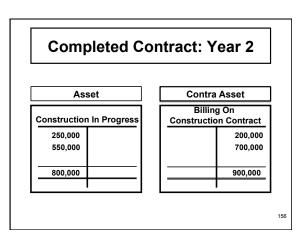
Completed Contract: Y	ear 1
Construction in progress > Billings, Asset lik	e receivable
Balance Sheet	
Current assets	
Construction In Progress	\$225,000
Less: Billings On Construction Contract	200,000
Cost and profit in excess of billings	25,000
Gross profit is not recognized until project i	s complete
Gross profit is not recognized until project i	s complete

Completed Contract: Year 2 2012 2013 \$550,000 Construction costs incurred during year \$400,000 250,000 800,000 Construction costs incurred in prior years Cumulative construction costs 800.000 1,200,000 Estimated costs to complete at year end 425,000 None Estimated + actual construction costs \$1,225,000 \$1,200,000 Description Debit Credit Construction In Progress 550,000 Actual work 550,000 Cash, Supplies Inventory, Etc Actual construction costs incurred this period 152

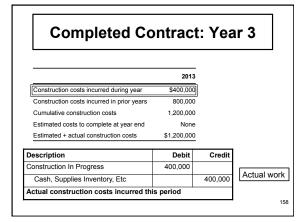


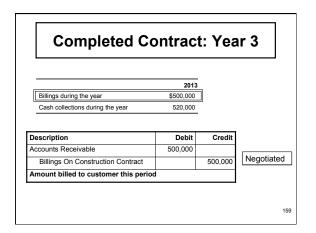
2013 \$500,000 520,000	
520,000	
Credit	
	Buyer pays
705,000	Buyer pays
	Credit 705,000

Completed Co	ontrac	t: Yea	ar 2
Description	Debit	Credit	
Construction In Progress	550,000]	
Cash, Supplies Inventory, Etc		550,000	Actual work
Actual construction costs incurred the Description	is period Debit	Credit	
Accounts Receivable	700,000		
Billings On Construction Contract		700,000	Negotiated
Amount billed to customer this period	I		
Description	Debit	Credit	
Cash	705,000		-
Accounts Receivable		705,000	Buyer pays
Amount collected from customer this	period		155



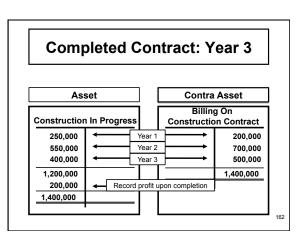
Completed Contract: Y	'ear 2
Billings > Construction In Progress, li	ability
Balance Sheet	
Current liabilities	
Billings On Construction Contract	\$900,000
Less: Construction In Progress	800,000
Billings in excess of cost and profits	100,000
Gross profit is not recognized until project	is complete



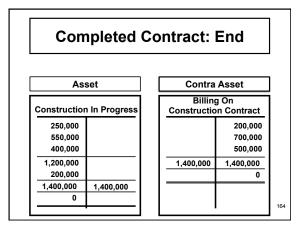


	2013		
Billings during the year	\$500,000		
Cash collections during the year	520,000	1	
Description	Debit	Credit	1
Description Cash	Debit 520,000	Credit	
· · ·		Credit 520,000	Buyer pays
		Credit	

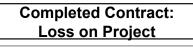
Completed Co	ontrac	t: Yea	ar 3
Description	Debit	Credit	
Construction In Progress	400,000		
Cash, Supplies Inventory, Etc		400,000	Actual work
Actual construction costs incurred th	·		
Description	Debit	Credit	
Accounts Receivable	500,000		
Billings On Construction Contract		500,000	Negotiated
Amount billed to customer this period	l		
Description	Debit	Credit	
Cash	520,000		
Accounts Receivable		520,000	Buyer pays
Amount collected from customer this	period		161



Completed Cont	ract: Ei	nd
In period contract compl	eted	
 Record all revenue 		
Record all expense		
 Profit (loss) to Construction 	on in Progr	ress
 Profit (loss) to Construction 	on in Progr	ress
Profit (loss) to Construction	on in Progr Debit	ress Credit
]
Description	Debit]

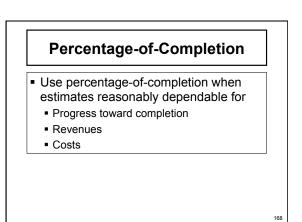


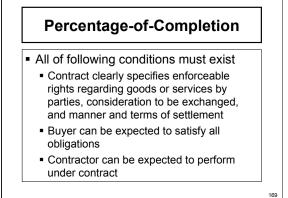
Completed Cont	ract: Ei	nd	
 Asset is transferred to b Asset removed from sel 	,	S	
	Debit	Credit	
Description	Debit	Creait	
Description Billings On Construction Contract	1,400,000	Credit	
· ·		1,400,000	

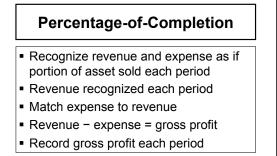


- In general, no revenue, expense recognized until project completed
- Exception: Estimated loss on project
- Immediately recognize loss in full

Completed Loss on					
Three year project. Tota	al rever	nue	\$1,400,0	00.	
	:	2011	2012	2013	
Construction costs incurred during year	\$250	,000,	\$100,000	\$1,100,000	
Construction costs incurred in prior years	٢	lone	250,000	350,000	
Cumulative construction costs	250	,000,	350,000	1,450,000	
Estimated costs to complete at year end	1,000	,000,	1,100,000	None	
Estimated + actual construction costs	\$1,250	,000,	\$1,450,000	\$1,450,000	
Description			Debit	Credi	t
Loss On Long-term Contracts			50,000		
Construction In Progress (Lo	oss)			50,000	0
Record \$50,000 loss	in year	2 0	of contrac	:t	





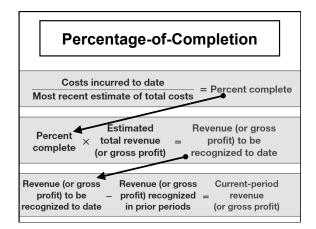


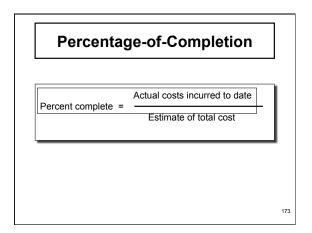
Recognize portion of estimated gross profit each period based upon progress

170

Percentage-of-Completion

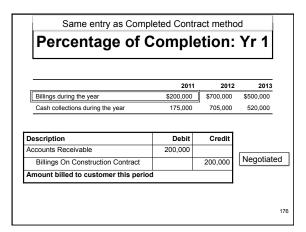
- How to measure gross profit earned?
- Prefer units of output measure
 - Cubic yards of concrete poured
- Units of output usually not measurable
- Estimated progress based on cost
 - Actual cost incurred to date
 - Estimate total cost
 - Estimate gross profit percentage

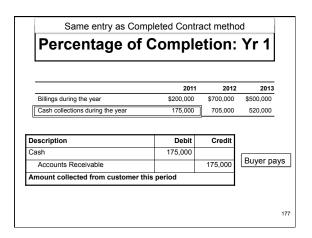


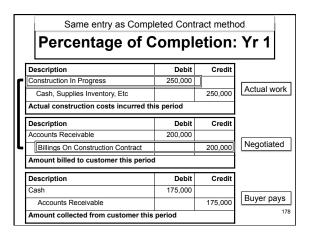


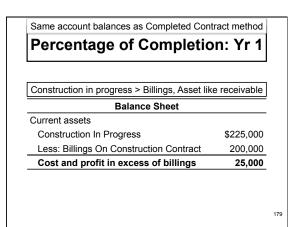
Data for Sam	ple Pr	obler	n
Three year project. Tota	al revenue	\$1,400,0	00.
	2011	2012	2013
Construction costs incurred during year	\$250,000	\$550,000	\$400,000
Construction costs incurred in prior years	None	250,000	800,000
Cumulative construction costs	250,000	800,000	1,200,000
Estimated costs to complete at year end	1,000,000	425,000	None
Estimated + actual construction costs	\$1,250,000	\$1,225,000	\$1,200,000
	2011	2012	2013
Billings during the year	\$200,000	\$700,000	\$500,000
Cash collections during the year	175,000	705,000	520,000

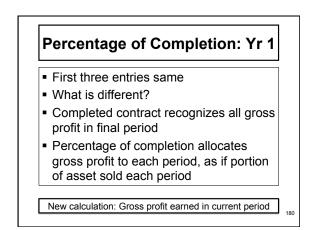
Percentage of C	omple	etion:	Yr 1
	2011	2012	2013
Construction costs incurred during year	\$250,000	\$550,000	\$400,000
Construction costs incurred in prior years	None	250,000	800,000
Cumulative construction costs	250,000	800,000	1,200,000
Estimated costs to complete at year end	1,000,000	425,000	None
Estimated + actual construction costs	\$1,250,000	\$1,225,000	\$1,200,000
Description	Debit	Credit	
Construction In Progress	250,000		
Cash, Supplies Inventory, Etc		250,000	Actual w
Actual construction costs incurred this	s period		



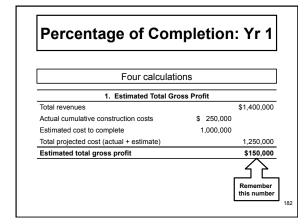


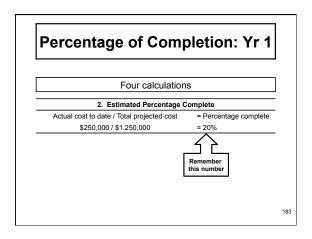


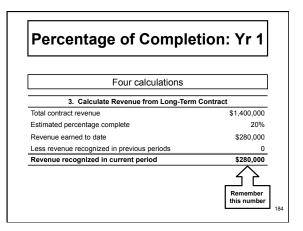




Three vea	r project. Tota	al revenue	\$1.400.0	00.
	· • • • • • • • • • •	2011	2012	2013
Construction costs incu	rred during year	\$250,000	\$550,000	\$400,000
Construction costs incu	rred in prior years	None	250,000	800,000
Cumulative construction	n costs	250,000	800,000	1,200,000
Estimated costs to com	plete at year end	1,000,000	425,000	None
Estimated + actual cons	struction costs	\$1,250,000	\$1,225,000	\$1,200,000





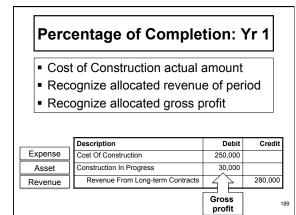


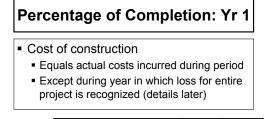
Percentage of Complet	ion: fr 1
Four calculations	
4. Gross Profit Recognized in Current	Period
Estimated total gross profit	\$150,000
Estimated percentage complete	20%
Gross profit earned to date	\$30,000
Less gross profit recognized in previous periods	C
Gross profit recognized in current period	\$30,000
	Remember this number

	ost Of Construction onstruction In Progres Revenue From Long		acts		0,000 0,000		
	•		acts	30	0,000		
Revenue	Revenue From Long	g-term Contra	acts				
						280	,000
		2011	2	012		2013	
Construction costs incu	irred during year	\$250,000	\$550,	000	\$400	0,000	
Construction costs incu	irred in prior years	None	250,	000	800	0,000	
Cumulative constructio	n costs	250,000	800,	000	1,200	0,000	
Estimated costs to corr	plete at year end	1,000,000	425,	000	I	None	
Estimated + actual con	struction costs	\$1,250,000	\$1,225,	000	\$1,200	0,000	

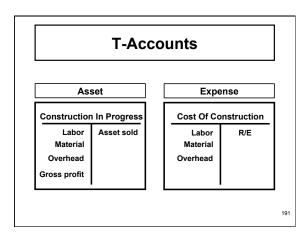
	Description			D	ebit	Cred	it
Expense	Cost Of Construction			250	,000,		_
Asset	Construction In Progre	SS		30	,000,		-
Revenue	Revenue From Lon	g-term Contra	icts			280,00	0
		2011		2012		2013	
Construction costs	incurred during year	\$250,000	\$55	0,000	\$400	0,000	
	3. Calculate Revenue	from Long-Te	erm (Contrac	rt		
Cun Total contra	ct revenue				\$1,4	400,000	
	ercentage complete					20%	
Esti Revenue ea	rned to date				\$2	280,000	
Less revenu	e recognized in previou	s periods				0	
	cognized in current perio	hd			S	280,000	

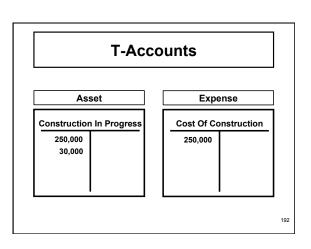
Cost Of Construction		_	
		250,000	
Construction In Progres	s	30,000	
Revenue From Long	-term Contract	.s	280,000
,	2011	2012	2013
incurred during year	\$250,000	\$550,000 \$40	00,000
. Calculate Revenue fr	rom Long-Terr	m Contract	
t revenue		\$1,	,400,000
4. Gross Profit R	ecognized in	Current Period	1
ed total gross profit			\$150,000
ed percentage complete	1		20%
profit earned to date			\$30,000
oss profit recognized in p	previous period	is	(
orofit recognized in curre	nt period		\$30,00
	ncurred during year Calculate Revenue Gaunation Calculate Revenue Gaunation Calculate Revenue Gaunation Calculate Revenue Calculate Complete Contract Calculate	2011 ncurred during year S250,000 Calculate Revenue from Long-Territ trevenue 4. Gross Profit Recognized in G ed total gross profit ed percentage complete rofit earned to date	Accord and a construction S250,000 \$400 Calculate Revenue from Long-Term Contract \$1, 4. Gross Profit Recognized in Current Period state add total gross profit add total gross profit add percentage complete rofit earned to date psp rofit recognized in previous periods state





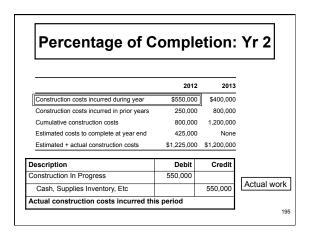
	Description	Debit	Credit
Expense	Cost Of Construction	250,000	
Asset	Construction In Progress	30,000	
Revenue	Revenue From Long-term Contracts	$\overline{\langle} \rangle$	280,000
		Gross profit	19

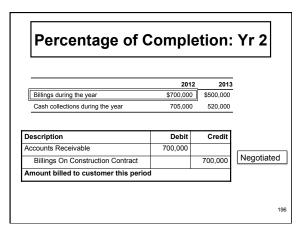


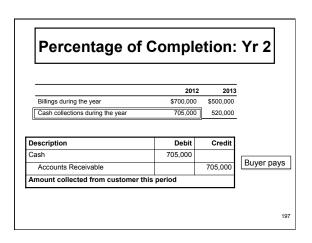


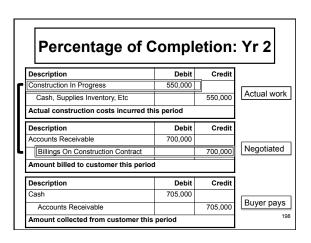
Actual Costs	Debite	ed Tw	rice
Description	Debit	Credit	
Construction In Progress	250,000		Asset
Cash, Supplies Inventory, Etc		250,000	
Actual construction costs incurred thi	Debit	Que d'é	1
Description		Credit	
Cost Of Construction	250,000		Expense
Construction In Progress	30,000		
Revenue From Long-term Contracts		280,000	
			193

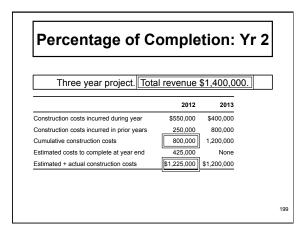
		ogres	55
Description	Debit	Credit	1
Construction In Progress	250,000		Asset
Cash, Supplies Inventory, Etc		250,000	
Actual construction costs incurred thi	s period]
		Credit]
Actual construction costs incurred thi Description Cost Of Construction	s period Debit 250,000	Credit]
Description	Debit	Credit	Asset

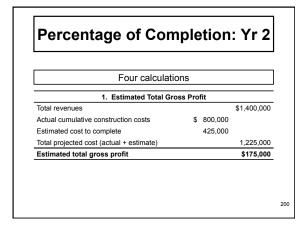


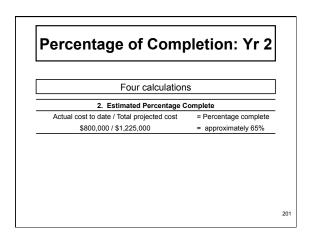




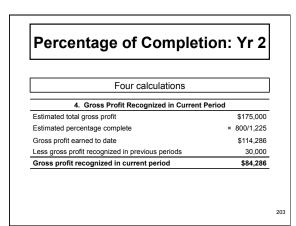


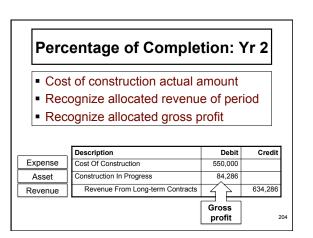


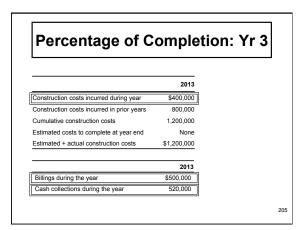




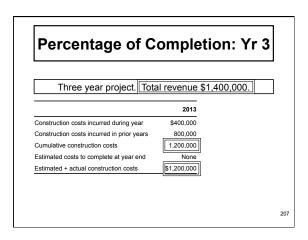
Four calculations	
3. Calculate Revenue from Long-Term	Contract
Total contract revenue	\$1,400,000
Estimated percentage complete	× 800/1,225
Revenue earned to date	\$914,286
Less revenue recognized in previous periods	\$280,000
Revenue recognized in current period	\$634,286

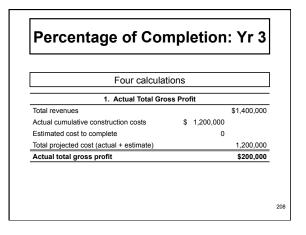


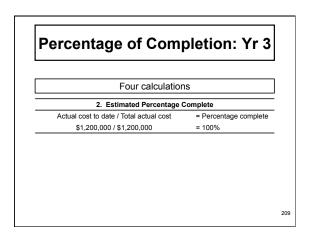


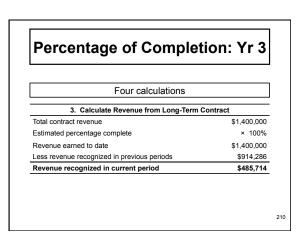


Percentage of C	Compl	etion	Yr 3
Description	Debit	Credit	
Construction In Progress	400,000		
Cash, Supplies Inventory, Etc		400,000	Actual work
Actual construction costs incurred th	is period		
Description	Debit	Credit	
Accounts Receivable	500,000		
Billings On Construction Contract		500,000	Negotiated
Amount billed to customer this period	d		
Description	Debit	Credit	
Cash	520,000		
Accounts Receivable		520,000	Buyer pays
Amount collected from customer this	period		20

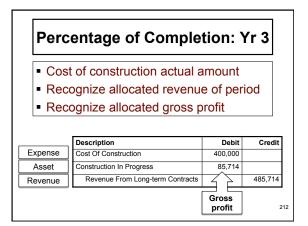


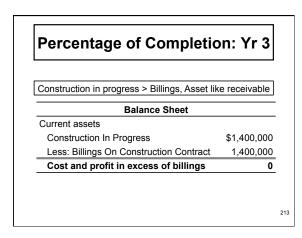


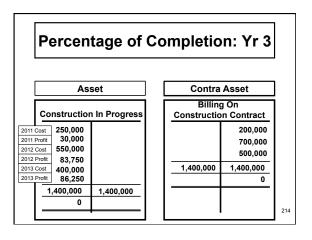




Four calculations	
3. Gross Profit Recognized in Current P	eriod
Actual total gross profit	\$200,000
Estimated percentage complete	100%
Gross profit earned to date	\$200,000
Less gross profit recognized in previous periods	114,286
Gross profit recognized in current period	\$85,714



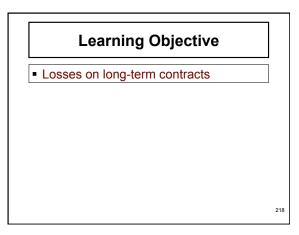


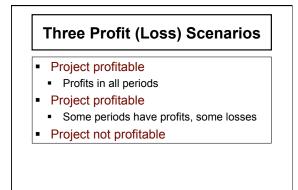


Percentage of Com				
Project completed				
 Title transferred to customer 				
- Demonstration	asset from	books		
 Remove asset, contra a 		DOOKS		
Remove asset, contra a	Debit	Credit		
		J		

Summary						
Three year project. Tota	al revenue	\$1,400,0	00.			
	2011	2012	2013			
Construction costs incurred during year	\$250,000	\$550,000	\$400,000			
Construction costs incurred in prior years	None	250,000	800,000			
Cumulative construction costs	250,000	800,000	1,200,000			
Estimated costs to complete at year end	1,000,000	425,000	None			
Estimated + actual construction costs	\$1,250,000	\$1,225,000	\$1,200,000			
	2011	2012	2013			
Estimated gross profit	\$150,000	\$175,000	\$200,000			
Estimated percent complete	20%	≈65%	100%			
Gross profit earned to date	\$30,000	\$114,286	\$200,000			
		\$84,286	\$85.714			

\$30,000 \$0 84,286 0 85,714 200,000 \$200,000 \$200,000	84,286 0 85,714 200,000	112 84,286 0 113 85,714 200,000
85,714 200,000	85,714 200,000	13 85,714 200,000
\$200,000 \$200,000	\$200,000 \$200,000	tal \$200,000 \$200,000





Losses on Contracts

- Loss in current period on profitable contract
- Loss on unprofitable contract

Loss in Current Period on Profitable Contract

- Completed contract method
 - No entry: All rev, exp recorded in final year
- Percentage-of-completion method
 - Estimated cost increase requires a currentperiod adjustment of gross profit recognized in prior periods



- Under both percentage-of-completion and completed-contract methods
 - Recognize entire expected contract loss in current period

219

220

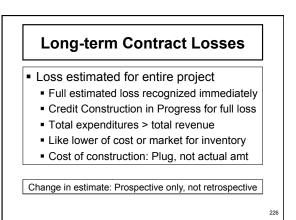


- Profitable Projects: Loss in period
 - Credit Construction in Progress for period loss

Change in estimate: Prospective only, not retrospective

Loss on Year 2 Only							
Three year project. Total revenue \$1,400,000.							
	2011	2012	2013				
Construction costs incurred during year	\$250,000	\$100,000	\$950,000				
Construction costs incurred in prior years	None	250,000	350,000				
Cumulative construction costs	250,000	350,000	1,300,000				
Estimated costs to complete at year end	1,000,000	950,000	None				
Estimated + actual construction costs	\$1,250,000	\$1,300,000	\$1,300,000				
	2011	2012	2013				
Estimated gross profit	\$150,000	\$100,000	\$100,000				
Estimated percent complete	20%	≈ 27%	100%				
Gross profit earned to date	\$30,000	\$26,993	\$100,000				
Gross profit recognized in current period	\$30,000	(\$3,007)	\$73,007				

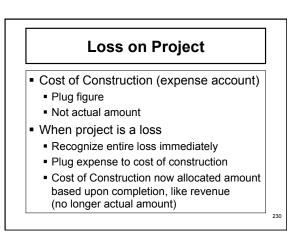
	Loss on Ye	ear	2 (Dnl	у	
	Three year project. Tota	l reve	enue	\$1,4	00,0	00.
			2011		2012	20
Total	contract revenue	\$1,40	0,000	\$1,400	0,000	\$1,400,0
Estin	nated percentage complete		20%	*	27%	10
Reve	enue earned to date	\$28	0,000	\$376	5,923	\$1,400,0
Revenue recognized in current period		\$28	\$280,000 \$96,9		5,923	\$1,023,0
1	Description			Debit		Credit
	Cost Of Construction		10	0,000		
Construction In Progress					3,007	
Revenue From Long-term Con		tracte				96,923



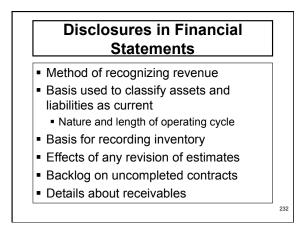
Three year project. Total revenue \$1,400,000.					
	2011	2012	2013		
Construction costs incurred during year	\$250,000	\$100,000	\$1,100,000		
Construction costs incurred in prior years	None	250,000	350,000		
Cumulative construction costs	250,000	350,000	1,450,000		
Estimated costs to complete at year end	1,000,000	1,100,000	None		
Estimated + actual construction costs	\$1,250,000	\$1,450,000	\$1,450,000		
Description	Debit	Credit			
Construction In Progress	100,000				
Cash, Supplies Inventory, Etc		100,000	Actual w		

	Loss on	Pro	oje	ct			
			2011		2012	2	013
Estir	nated gross profit	\$15	0,000	(\$50	000)	N	lone
Estir	mated percent complete		20%		N/A		N/A
Gros	as profit earned to date	\$3	0,000	I	None	N	lone
Gros	ss profit recognized in current period	\$3	0,000	(\$80	000)	N	lone
Tota	il revenue: \$1,400,000		2011		2012	2	013
Estir	mated percent complete		20%	*	24%	1(00%
Reve	enue earned to date	\$28	0,000	\$337	,931	\$1,400	,000
Reve	enue recognized in current period	\$28	0,000	\$57	,931	\$1,062	069
	Description			Debit		Credit	
Plug 片	Cost Of Construction		13	7,931			
	Construction In Progress				1	80,000	
	Revenue From Long-term Cor	ntracts				57,931	

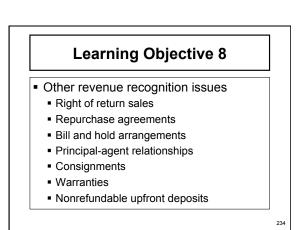
Difference in Debits					
Description	Debit	Credit			
Construction In Progress	100,000		Asset		
Cash, Supplies Inventory, Etc		250,000			
Actual construction costs incurred thi	Debit	Credit	[
Cost Of Construction	137,931		Expense		
Construction In Progress		80,000			
Revenue From Long-term Contracts		57,931			
· · · · · · · · · · · · · · · · · · ·			229		

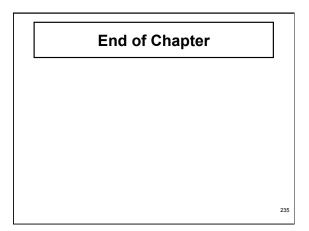


Loss on Pro	oject		
Project cost (without loss)		\$1,400,000	
Percent complete at end of year 2	× (350/1,450)		
Cost allocated to year 1 and year 2	337,931		
Add loss	50,000		
Cost allocated to date + loss	387,931		
Less cost recognized in year 1	250,000		
Cost allocated to year 2	137,931		
Description	Debit	Credit	
		Credit	
Cost Of Construction	137,931		
Construction In Progress		80,000	
Revenue From Long-term Contracts		57,931	



franchis collected value of fair valu signed of	ee of Frozen Delight. Of this ar d in four equal annual installme \$41,500. As part of the total f e of \$2,200) to help franchisee on April 1, 2014, training is con	franchise fee of \$78,300 for the nount, \$29,300 is collected im nist of \$12,250 each. These in ranchise fee, Frozen Delight al is get the store ready to open. npleted, and the store opens o ght in 2014. (<i>If no entry is re</i>	mediately. The i stallments have so provides train The franchise a n July 1, 2014.	remainder is a present ning (with a greement is Prepare the
Notes	Receivable (\$78,300 -	\$29,300)	=	\$49,000
Unearı	ned Franchise Revenue	(\$29,300 + \$41,500 -	\$2,200) =	\$68,600
2014	Cash	29,300		
	Notes Receivable	49,000		
	Discount on Notes Rece			7,500
	Unearned Service Reve			2,200
	Unearned Franchise Rev			68,600
July 1, 2014	Unearned Service Revenue	2,200		
	Unearned Franchise Reven	68,600		
	Franchise Revenue			68,600
	Service Revenue			2,200





Brief Exercise 18A-18

Inter Exercise 18A-18 Talarczyk Company sold 18,000 Super-Spreaders on July 1, 2014, at a total price of \$1,800,000, with a warranty guarantee that the product was free of any defects. The cost of the spreaders sold is \$670,000. The assurance warranties extend for a 2-year period and are estimated to cost \$41,500. Talarczyk also sold extended warranties (service-type warranties) related to 3,000 spreaders for 2 years beyond the 2-year period for \$14,300. Prepare the journal entries that Talarczyk should make in 2014 related to the sale and the related warranties. (*Et no entry is* Account Titles and Explanation Debit Credit

Cash	1,814,300	
Warranty Expense	41,500	
Warranty Liability		41,500
, ,		
Unearned Warranty Rev		14,300
Sales Revenue		1,800,000
Cost of Goods Sold	670,000	
Inventory		670,000
Talarczyk reduces the Warran costs are incurred The compa		

costs are incurred The company also recognizes revenue related to the service type warranty or the two-year period that extends beyond the assurance warranty period (two years). In most cases, the unearned warranty revenue is recognized on a straight line basis and the costs associated with the service type warranty are expensed as incurred.