Chapter 2 Consolidation of Financial Information

Accounting standards for business combination are found in FASB ASC Topic 805, “Business Combinations” and Topic 810, “Consolidation.” These standards require the acquisition method which emphasizes acquisition-date fair values for recording all combinations.

In this chapter, we first provide coverage of expansion through corporate takeovers and an overview of the consolidation process. Then we present the acquisition method of accounting for business combinations followed by limited coverage of the purchase method and pooling of interests provided in the Appendix to this chapter.

Chapter Outline

I. Business combinations and the consolidation process

   A. A business combination is the formation of a single economic entity, an event that occurs whenever one company gains control over another

   B. Business combinations can be created in several different ways

      1. Statutory merger—only one of the original companies remains in business as a legally incorporated enterprise.

         a. Assets and liabilities can be acquired with the seller then dissolving itself as a corporation.

         b. All of the capital stock of a company can be acquired with the assets and liabilities then transferred to the buyer followed by the seller’s dissolution.

      2. Statutory consolidation—assets or capital stock of two or more companies are transferred to a newly formed corporation

      3. Acquisition by one company of a controlling interest in the voting stock of a second. Dissolution does not take place; both parties retain their separate legal incorporation.

   C. Financial information from the members of a business combination must be consolidated into a single set of financial statements representing the entire economic entity.

      1. If the acquired company is legally dissolved, a permanent consolidation is produced on the date of acquisition by entering all account balances into the financial records of the surviving company.

      2. If separate incorporation is maintained, consolidation is periodically simulated whenever financial statements are to be prepared. This process is carried out through the use of worksheets and consolidation entries. Consolidation worksheet entries are used to adjust and eliminate subsidiary company accounts. Entry “S” eliminates the equity accounts of the subsidiary. Entry “A” allocates excess payment
amounts to identifiable assets and liabilities based on the fair value of the subsidiary accounts. (Consolidation journal entries are never recorded in the books of either company, they are worksheet entries only.)
II. The Acquisition Method

A. The acquisition method replaced the purchase method. For combinations resulting in complete ownership, it is distinguished by four characteristics.

1. All assets acquired and liabilities assumed in the combination are recognized and measured at their individual fair values (with few exceptions).
2. The fair value of the consideration transferred provides a starting point for valuing and recording a business combination.
   a. The consideration transferred includes cash, securities, and contingent performance obligations.
   b. Direct combination costs are expensed as incurred.
   c. Stock issuance costs are recorded as a reduction in paid-in capital.
   d. The fair value of any noncontrolling interest also adds to the valuation of the acquired firm and is covered beginning in Chapter 4 of the text.
3. Any excess of the fair value of the consideration transferred over the net amount assigned to the individual assets acquired and liabilities assumed is recognized by the acquirer as goodwill.
4. Any excess of the net amount assigned to the individual assets acquired and liabilities assumed over the fair value of the consideration transferred is recognized by the acquirer as a “gain on bargain purchase.”

B. In-process research and development acquired in a business combination is recognized as an asset at its acquisition-date fair value.

III. Convergence between U.S. GAAP and IAS

A. IFRS 3 – nearly identical to U.S. GAAP because of joint efforts
B. IFRS 10 – Consolidated Financial Statements and IFRS 12 – Disclosure of Interests in Other Entities both become effective in 2013. Some differences between these and GAAP

APPENDIX:

The Purchase Method

A. The purchase method was applicable for business combinations occurring for fiscal years beginning prior to December 15, 2008. It was distinguished by three characteristics.

1. One company was clearly in a dominant role as the purchasing party
2. A bargained exchange transaction took place to obtain control over the second company.
3. A historical cost figure was determined based on the acquisition price paid.
   a. The cost of the acquisition included any direct combination costs.
   b. Stock issuance costs were recorded as a reduction in paid-in capital and are not considered to be a component of the acquisition price.

B. Purchase method procedures

1. The assets and liabilities acquired were measured by the buyer at fair value as of the date of acquisition.
2. Any portion of the payment made in excess of the fair value of these assets and liabilities was attributed to an intangible asset commonly referred to as goodwill.
3. If the price paid was below the fair value of the assets and liabilities, the accounts of the acquired company were still measured at fair value except that the values of certain noncurrent assets were reduced in total by the excess cost. If these values were not great enough to absorb the entire reduction, an extraordinary gain was recognized.

The Pooling of Interest Method *(prohibited for combinations after June 2002)*

A. A pooling of interests was formed by the uniting of the ownership interests of two companies through the exchange of equity securities. The characteristics of a pooling are fundamentally different from either the purchase or acquisition methods.

1. Neither party was truly viewed as an acquiring company.
2. Precise cost figures stemming from the exchange of securities were difficult to ascertain.
3. The transaction affected the stockholders rather than the companies.

B. Pooling of interests accounting

1. Because of the nature of a pooling, determination of an acquisition price was not relevant.
   a. Since no acquisition price was computed, all direct costs of creating the combination were expensed immediately.
   b. In addition, new goodwill arising from the combination was never recognized in a pooling of interests. Similarly, no valuation adjustments were recorded for any of the assets or liabilities combined.

2. The book values of the two companies were simply brought together to produce a set of consolidated financial records. A pooling was viewed as affecting the owners rather than the two companies.

3. The results of operations reported by both parties were combined on a retroactive basis as if the companies had always been together.

4. Controversy historically surrounded the pooling of interests method.
   a. Any cost figures indicated by the exchange transaction that created the combination were ignored.
   b. Income balances previously reported were altered since operations were combined on a retroactive basis.
   c. Reported net income was usually higher in subsequent years than in a purchase since no goodwill or valuation adjustments were recognized which require amortization.

Answers to Questions

1. A business combination is the process of forming a single economic entity by the uniting of two or more organizations under common ownership. The term also refers to the entity that results from this process.

2. (1) A statutory merger is created whenever two or more companies come together to form a business combination and only one remains in existence as an identifiable entity. This arrangement is often instituted by the acquisition of substantially all of an enterprise’s assets. (2) A statutory merger can also be produced by the acquisition of a company’s
capital stock. This transaction is labeled a statutory merger if the acquired company transfers its assets and liabilities to the buyer and then legally dissolves as a corporation. (3) A statutory consolidation results when two or more companies transfer all of their assets or capital stock to a newly formed corporation. The original companies are being “consolidated” into the new entity. (4) A business combination is also formed whenever one company gains control over another through the acquisition of outstanding voting stock. Both companies retain their separate legal identities although the common ownership indicates that only a single economic entity exists.

3. Consolidated financial statements represent accounting information gathered from two or more separate companies. This data, although accumulated individually by the organizations, is brought together (or consolidated) to describe the single economic entity created by the business combination.

4. Companies that form a business combination will often retain their separate legal identities as well as their individual accounting systems. In such cases, internal financial data continues to be accumulated by each organization. Separate financial reports may be required for outside shareholders (a noncontrolling interest), the government, debt holders, etc. This information may also be utilized in corporate evaluations and other decision making. However, the business combination must periodically produce consolidated financial statements encompassing all of the companies within the single economic entity. The purpose of a worksheet is to organize and structure this process. The worksheet allows for a simulated consolidation to be carried out on a regular, periodic basis without affecting the financial records of the various component companies.

5. Several situations can occur in which the fair value of the 50,000 shares being issued might be difficult to ascertain. These examples include:
   - The shares may be newly issued (if Jones has just been created) so that no accurate value has yet been established;
   - Jones may be a closely held corporation so that no fair value is available for its shares;
   - The number of newly issued shares (especially if the amount is large in comparison to the quantity of previously outstanding shares) may cause the price of the stock to fluctuate widely so that no accurate fair value can be determined during a reasonable period of time;
   - Jones’ stock may have historically experienced drastic swings in price. Thus, a quoted figure at any specific point in time may not be an adequate or representative value for long-term accounting purposes.

6. For combinations resulting in complete ownership, the acquisition method allocates the fair value of the consideration transferred to the separately recognized assets acquired and liabilities assumed based on their individual fair values.

7. The revenues and expenses (both current and past) of the parent are included within reported figures. However, the revenues and expenses of the subsidiary are consolidated from the date of the acquisition forward within the worksheet consolidation process. The operations of the subsidiary are only applicable to the business combination if earned subsequent to its creation.

8. Morgan’s additional acquisition value may be attributed to many factors: expected synergies between Morgan’s and Jennings’ assets, favorable earnings projections, competitive bidding to acquire Jennings, etc. In general however, any amount paid by the parent company in excess of the fair values of the subsidiary’s net assets acquired is reported as goodwill.
9. In the vast majority of cases the assets acquired and liabilities assumed in a business combination are recorded at their fair values. If the fair value of the consideration transferred (including any contingent consideration) is less than the total net fair value assigned to the assets acquired and liabilities assumed, then an ordinary gain on bargain purchase is recognized for the difference.

10. Shares issued are recorded at fair value as if the stock had been sold and the money obtained used to acquire the subsidiary. The Common Stock account is recorded at the par value of these shares with any excess amount attributed to additional paid-in capital.

11. The direct combination costs of $98,000 are allocated to expense in the period in which they occur. Stock issue costs of $56,000 are treated as a reduction of APIC.
Answers to Problems

1. D
2. B
3. D
4. A
5. B
6. A
7. A
8. B
9. C
10. C

11. B Consideration transferred (fair value) $800,000
   Cash $150,000
   Accounts receivable 140,000
   Software 320,000
   Research and development asset 200,000
   Liabilities (130,000)
   Fair value of net *identifiable* assets acquired 680,000
   Goodwill $120,000

12. C Legal and accounting fees accounts payable $15,000
   Contingent liabilityliability 20,000
   Donovan’s liabilities assumed 60,000
   Liabilities assumed or incurred $95,000

13. D Consideration transferred (fair value) $420,000
   Current assets $90,000
   Building and equipment 250,000
   Unpatented technology 25,000
   Research and development asset 45,000
   Liabilities (60,000)
   Fair value of net *identifiable* assets acquired 350,000
   Goodwill $70,000

   Current assets $ 90,000
   Building and equipment 250,000
   Unpatented technology 25,000
   Research and development asset 45,000
   Goodwill 70,000 Total assets $480,000
14. C Value of shares issued (51,000 × $3) ...................................... $153,000
Par value of shares issued (51,000 × $1) ................................ 51,000
Additional paid-in capital (new shares) ..................................... $102,000
  Additional paid-in capital (existing shares) ......................... 90,000
  Consolidated additional paid-in capital (fair value) ............. $192,000

At the acquisition date, the parent makes no change to retained earnings.

15. B Consideration transferred (fair value) ......................... $400,000
  Book value of subsidiary (assets minus liabilities) .... (300,000)
  Fair value in excess of book value ........................................ 100,000
Allocation of excess fair over book value identified with specific accounts:
  Inventory ................................................................. 30,000
  Patented technology .................................................. 20,000
  Land ........................................................................ 25,000
  Long-term liabilities .................................................. 10,000
  Goodwill ..................................................................... $15,000

16. D TruData patented technology ..................................... $230,000
  Webstat patented technology (fair value) ............... 200,000
  Acquisition-date consolidated balance sheet amount $430,000

17. C TruData common stock before acquisition ............... $300,000
  Common stock issued (par value) ............................... 50,000
  Acquisition-date consolidated balance sheet amount $350,000

18. B TruData’s 1/1 retained earnings ............................... $130,000
  TruData’s income (1/1 to 7/1) .................................... 80,000
  Acquisition-date consolidated balance sheet amount $210,000

19. a. An intangible asset acquired in a business combination is recognized as an asset apart from goodwill if it arises from contractual or other legal rights (regardless of whether those rights are transferable or separable from the acquired enterprise or from other rights and obligations). If an intangible asset does not arise from contractual or other legal rights, it shall be recognized as an asset apart from goodwill only if it is separable, that is, it is capable of being separated or divided from the acquired enterprise and sold, transferred, licensed, rented, or exchanged (regardless of whether there is an intent to do so). An intangible asset that cannot be sold, transferred, licensed, rented, or
exchanged individually is considered separable if it can be sold, transferred, licensed, rented, or exchanged with a related contract, asset, or liability.

b. Trademarks—usually meet both the separability and legal/contractual criteria.

- Customer list—usually meets the separability criterion.
- Copyrights on artistic materials—usually meet both the separability and legal/contractual criteria.
- Agreements to receive royalties on leased intellectual property—usually meet the legal/contractual criterion.
- Unpatented technology—may meet the separability criterion if capable of being sold even if in conjunction with a related contract, asset, or liability.

20. (12 minutes) (Journal entries to record a merger—acquired company dissolved)

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<thead>
<tr>
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<th>Amount</th>
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21. (12 minutes) (Journal entries to record a bargain purchase—acquired company dissolved)

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<th>Account</th>
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<td>Inventory</td>
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<tr>
<td>Buildings</td>
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</tbody>
</table>
22. (15 Minutes) (Consolidated balances)

In acquisitions, the fair values of the subsidiary's assets and liabilities are consolidated (there are a limited number of exceptions). Goodwill is reported at $80,000, the amount that the $760,000 consideration transferred exceeds the $680,000 fair value of Sol’s net assets acquired.

- Inventory = $670,000 (Padre's book value plus Sol's fair value)
- Land = $710,000 (Padre's book value plus Sol's fair value)
- Buildings and equipment = $930,000 (Padre's book value plus Sol's fair value)
- Franchise agreements = $440,000 (Padre's book value plus Sol's fair value)
- Goodwill = $80,000 (calculated above)
- Revenues = $960,000 (only parent company operational figures are reported at date of acquisition)
- Additional paid-in capital = $265,000 (Padre’s book value adjusted for stock issue less stock issuance costs)
- Expenses = $940,000 (only parent company operational figures plus acquisition-related costs are reported at date of acquisition)
- Retained earnings, 1/1 = $390,000 (Padre's book value only)
- Retained earnings, 12/31 = $410,000 (beginning retained earnings plus revenues minus expenses, of Padre only)

23. (20 minutes) Journal entries for a merger using alternative values.

a. Acquisition date fair values:

- Cash paid $700,000
- Contingent performance liability $35,000
- Consideration transferred $735,000
- Fair values of net assets acquired $750,000
- Gain on bargain purchase $15,000
b. Acquisition date fair values:

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<th>Fair Value</th>
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<tr>
<td>Cash paid</td>
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<td>Contingent performance liability</td>
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<td>Consideration transferred</td>
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<td>Research and Development Asset</td>
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<td>Goodwill</td>
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<td>Current Liabilities</td>
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<td>Cash</td>
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<tr>
<td>Contingent Performance Liability</td>
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24. (20 Minutes) (Determine selected consolidated balances)

Under the acquisition method, the shares issued by Wisconsin are recorded at fair value using the following journal entry:

Investment in Badger (value of debt and shares issued) 900,000
Common Stock (par value) ............................................ 150,000
Additional Paid-In Capital (excess over par value) .... 450,000
Liabilities ................................................................. 300,000

The payment to the broker is accounted for as an expense. The stock issue cost is a reduction in additional paid-in capital.

Professional Services Expense ..................................... 30,000
Additional Paid-In Capital ............................................. 40,000
Cash ............................................................................ 70,000

Allocation of Acquisition-Date Excess Fair Value:

Consideration transferred (fair value) for Badger Stock $900,000
Book Value of Badger, 6/30 ........................................... 770,000
   Fair Value in Excess of Book Value ......................... $130,000
Excess fair value (undervalued equipment) .................... 100,000
Excess fair value (overvalued patented technology) ...... $(20,000)
Goodwill ..................................................................... $ 50,000

CONSOLIDATED BALANCES:
- Net income (adjusted for professional services expense. The figures earned by the subsidiary prior to the takeover are not included) ......................................................... $210,000
- Retained earnings, 1/1 (the figures earned by the subsidiary prior to the takeover are not included) .................. 800,000
- Patented technology (the parent's book value plus the fair value of the subsidiary) ................................ ............... 1,180,000
- Goodwill (computed above) ........................................ 50,000
- Liabilities (the parent's book value plus the fair value of the subsidiary's debt plus the debt issued by the parent in acquiring the subsidiary) .................................................. 1,210,000
- Common stock (the parent's book value after recording the newly-issued shares) ........................................... 510,000
- Additional Paid-in Capital (the parent’s book value after recording the two entries above) ......................... 680,000

25. (20 minutes) (Preparation of a consolidated balance sheet)*

CASEY COMPANY AND CONSOLIDATED SUBSIDIARY KENNEDY
Worksheet for a Consolidated Balance Sheet
26. (50 Minutes) (Determine consolidated balances for a bargain purchase.)

   a. Marshall’s acquisition of Tucker represents a bargain purchase because the fair value of the net assets acquired exceeds the fair value of the consideration transferred as follows:

   Fair value of net assets acquired $515,000
   Fair value of consideration transferred 400,000
   Gain on bargain purchase $115,000

   In a bargain purchase, the acquisition is recorded at the fair value of the net assets acquired instead of the fair value of the consideration transferred (an exception to the general rule).

   Prior to preparing a consolidation worksheet, Marshall records the three transactions that occurred to create the business combination.

   Investment in Tucker ............................................ 515,000
   Long-term Liabilities ........................................... 200,000
   Common Stock (par value) ..................................... 20,000
   Additional Paid-In Capital .................................. 180,000
   Gain on Bargain Purchase .................................... 115,000

   (To record liabilities and stock issued for Tucker acquisition fair value)

26. (continued)

   Professional Services Expense ......................... 30,000
Cash .............................................................. 30,000
(to record payment of professional fees)

Additional Paid-In Capital ..................... 12,000
Cash .............................................................. 12,000
(To record payment of stock issuance costs)

Marshall’s trial balance is adjusted for these transactions (as shown in the worksheet that follows).

Next, the $400,000 fair value of the investment is allocated:

Consideration transferred at fair value ....................... $400,000
Book value (assets minus liabilities or total stockholders’ equity) ............................................... 460,000
Book value in excess of consideration transferred .......

Allocation to specific accounts based on fair value:
Inventory ................................................................. 5,000
Land ........................................................................ 20,000
Buildings ................................................................. 30,000 55,000

Gain on bargain purchase (excess net asset fair value over consideration transferred) ......................... $(115,000)

CONSOLIDATED TOTALS

- Cash = $38,000. Add the two book values less acquisition and stock issue costs
- Receivables = $360,000. Add the two book values.
- Inventory = $505,000. Add the two book values plus the fair value adjustment
- Land = $400,000. Add the two book values plus the fair value adjustment.
- Buildings = $670,000. Add the two book values plus the fair value adjustment.
- Equipment = $210,000. Add the two book values.
- Total assets = $2,183,000. Summation of the above individual figures.
- Accounts payable = $190,000. Add the two book values.
- Long-term liabilities = $830,000. Add the two book values plus the debt incurred by the parent in acquiring the subsidiary.
- Common stock = $130,000. The parent’s book value after stock issue to acquire the subsidiary.
- Additional paid-in capital = $528,000. The parent’s book value after the stock issue to acquire the subsidiary less the stock issue costs.
- Retained earnings = $505,000. Parent company balance less $30,000 in professional services expense plus $115,000 gain on bargain purchase.
- Total liabilities and equity = $2,183,000. Summation of the above figures.
26. (continued)
b. MARSHALL COMPANY AND CONSOLIDATED SUBSIDIARY
Worksheet January 1, 2015

<table>
<thead>
<tr>
<th>Accounts</th>
<th>Marshall Company*</th>
<th>Tucker Company</th>
<th>Consolidation Entries</th>
<th>Consolidated Totals</th>
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<td>Investment in Tucker</td>
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<td>(S) 460,000</td>
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<td></td>
<td></td>
<td></td>
<td>(A) 55,000</td>
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<td>Total assets</td>
<td>1,943,000</td>
<td>700,000</td>
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<td>2,183,000</td>
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Accounts payable (150,000) (40,000) (190,000) (830,000)
Long-term liabilities (630,000) (200,000) (130,000)
Common stock (130,000) (120,000) (S) 120,000 (130,000)
Additional paid-in capital (528,000) -0- (528,000)
Retained earnings, 1/1/15 (505,000) (340,000) (S) 340,000 (505,000)
Total liab. and owners’ equity (1,943,000) (700,000) 515,000 515,000 (2,183,000)

Marshall’s accounts have been adjusted for acquisition entries (see part a.).
27. (Prepare a consolidated balance sheet)

Consideration transferred at fair value ........... $495,000
Book value ...................................................... 265,000
Excess fair over book value ......................... 230,000
Allocation of excess fair value to specific assets and liabilities:
- to computer software .................................. $50,000
- to equipment ........................................ (10,000)
- to client contracts .................................... 100,000
- to in-process research and development ... 40,000
- to notes payable ........................................ (5,000) 175,000
Goodwill ..................................................... $ 55,000

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<td>Research and development asset</td>
<td>0</td>
<td>0</td>
<td>(A) 40,000</td>
<td></td>
<td>40,000</td>
</tr>
<tr>
<td>Goodwill</td>
<td>0</td>
<td>0</td>
<td>(A) 55,000</td>
<td></td>
<td>55,000</td>
</tr>
<tr>
<td>Total assets</td>
<td>1,900,000</td>
<td>350,000</td>
<td></td>
<td></td>
<td>1,990,000</td>
</tr>
<tr>
<td>Accounts payable</td>
<td>(88,000)</td>
<td>(25,000)</td>
<td></td>
<td></td>
<td>(113,000)</td>
</tr>
<tr>
<td>Notes payable</td>
<td>(510,000)</td>
<td>(60,000)</td>
<td>(A) 5,000</td>
<td>(S) 575,000</td>
<td></td>
</tr>
<tr>
<td>Common stock</td>
<td>(380,000)</td>
<td>(100,000)</td>
<td>(S) 100,000</td>
<td>(380,000)</td>
<td></td>
</tr>
<tr>
<td>Additional paid-in capital</td>
<td>(170,000)</td>
<td>(25,000)</td>
<td>(S) 25,000</td>
<td>(170,000)</td>
<td></td>
</tr>
<tr>
<td>Retained earnings</td>
<td>(752,000)</td>
<td>(140,000)</td>
<td>(S) 140,000</td>
<td>(752,000)</td>
<td></td>
</tr>
<tr>
<td>Total liabilities</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>and equities</td>
<td>(1,900,000)</td>
<td>(350,000)</td>
<td>510,000</td>
<td>510,000</td>
<td>(1,990,000)</td>
</tr>
</tbody>
</table>
27. (continued)  Pratt Company and Subsidiary
Consolidated Balance Sheet
December 31, 2015

<table>
<thead>
<tr>
<th>Assets</th>
<th>Liabilities and Owners’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash $54,000</td>
<td>Accounts payable $113,000</td>
</tr>
<tr>
<td>Receivables 168,000</td>
<td>Notes payable 575,000</td>
</tr>
<tr>
<td>Inventory 230,000</td>
<td></td>
</tr>
<tr>
<td>Computer software 280,000</td>
<td></td>
</tr>
<tr>
<td>Buildings (net) 725,000</td>
<td></td>
</tr>
<tr>
<td>Equipment (net) 338,000</td>
<td></td>
</tr>
<tr>
<td>Client contracts 100,000</td>
<td></td>
</tr>
<tr>
<td>Research and development asset 40,000</td>
<td>Common stock 380,000</td>
</tr>
<tr>
<td>Goodwill 55,000</td>
<td>Additional paid in capital 170,000</td>
</tr>
<tr>
<td>Total assets 1,990,000</td>
<td>Total liabilities and equities 1,990,000</td>
</tr>
</tbody>
</table>

28. (15 minutes) (Acquisition method entries for a merger)

Case 1: Fair value of consideration transferred $145,000
Fair value of net identifiable assets 120,000
Excess to goodwill 25,000

Case 1 journal entry on Allerton’s books:

| Current Assets | 60,000 |
| Building       | 50,000 |
| Land           | 20,000 |
| Trademark      | 30,000 |
| Goodwill       | 25,000 |
| Liabilities    | 40,000 |
| Cash           | 145,000 |

Case 2: Bargain Purchase under acquisition method

Fair value of consideration transferred 110,000
Fair value of net identifiable assets 120,000
Gain on bargain purchase 10,000

Case 2 journal entry on Allerton’s books:

| Current Assets | 60,000 |
| Building       | 50,000 |
| Land           | 20,000 |
| Trademark      | 30,000 |
Gain on Bargain Purchase 10,000
Liabilities 40,000
Cash 110,000

Problem 28. (continued)

In a bargain purchase, the acquisition method employs the fair value of the net identifiable assets acquired as the basis for recording the acquisition. Because this basis exceeds the amount paid, Allerton recognizes a gain on bargain purchase. This is an exception to the general rule of using the fair value of the consideration transferred as the basis for recording the combination.

29. (25 minutes) (Combination entries—acquired entity dissolved)

Cash consideration transferred $310,800
Contingent performance obligation 17,900
Consideration transferred (fair value) 328,700
Fair value of net identifiable assets 294,700
Goodwill $ 34,000

Journal entries:

Receivables 83,900
Inventory 70,250
Buildings 122,000
Equipment 24,100
Customer List 25,200
Research and Development Asset 36,400
Goodwill 34,000

Current Liabilities 12,900
Long-Term Liabilities 54,250
Contingent Performance Liability 17,900
Cash 310,800

Professional Services Expense 15,100
Cash 15,100

30. (30 Minutes) (Overview of the steps in applying the acquisition method when shares have been issued to create a combination. Part h. includes a bargain purchase.)

a. The fair value of the consideration includes

Fair value of stock issued $1,500,000
Contingent performance obligation 30,000
Fair value of consideration transferred $1,530,000

b. Stock issue costs reduce additional paid-in capital.
c. In a business combination, direct acquisition costs (such as fees paid to investment banks for arranging the transaction) are recognized as expenses.

d. The par value of the 20,000 shares issued is recorded as an increase of $20,000 in the Common Stock account. The $74 fair value in excess of par value ($75 – $1) is an increase to additional paid-in capital of $1,480,000 ($74 × 20,000 shares).

e. Fair value of consideration transferred (above) $1,530,000
   RECEIVABLES $80,000
   PATENTED TECHNOLOGY $700,000
   CUSTOMER RELATIONSHIPS $500,000
   IN-PROCESS RESEARCH AND DEVELOPMENT $300,000
   LIABILITIES (400,000) $1,180,000
   GOODWILL $350,000

f. Revenues and expenses of the subsidiary from the period prior to the combination are omitted from the consolidated totals. Only the operational figures for the subsidiary after the purchase are applicable to the business combination. The previous owners earned any previous profits.

g. The subsidiary’s Common Stock and Additional Paid-in Capital accounts have no impact on the consolidated totals.

h. The fair value of the consideration transferred is now $1,030,000. This amount indicates a bargain purchase calculated as follows:

   FAIR VALUE OF CONSIDERATION TRANSFERRED $1,030,000
   RECEIVABLES $80,000
   PATENTED TECHNOLOGY $700,000
   CUSTOMER RELATIONSHIPS $500,000
   IN-PROCESS RESEARCH AND DEVELOPMENT $300,000
   LIABILITIES (400,000) $1,180,000
   GAIN ON BARGAIN PURCHASE $150,000

The values of SafeData’s assets and liabilities would be recorded at fair value, but there would be no goodwill recognized and a gain on bargain purchase would be reported.

31. (50 Minutes) (Prepare balance sheet for a statutory merger using the acquisition method. Also, use worksheet to derive consolidated totals.)
a. In accounting for the combination of NewTune and On-the-Go, the fair value of the acquisition is allocated to each identifiable asset and liability acquired with any remaining excess attributed to goodwill.

Fair value of consideration transferred (shares issued) $750,000
Fair value of net assets acquired:
- Cash $ 29,000
- Receivables 63,000
- Trademarks 225,000
- Record music catalog 180,000
- In-process research and development 200,000
- Equipment 105,000
- Accounts payable (34,000)
- Notes payable (45,000) 723,000
- Goodwill $ 27,000

Journal entries by NewTune to record combination with On-the-Go:
- Cash 29,000
- Receivables 63,000
- Trademarks 225,000
- Record Music Catalog 180,000
- Research and Development Asset 200,000
- Equipment 105,000
- Goodwill 27,000
- Accounts Payable 34,000
- Notes Payable 45,000
- Common Stock (NewTune par value) 60,000
- Additional Paid-In Capital 690,000
(To record merger with On-the-Go at fair value)

Additional Paid-In Capital 25,000
- Cash 25,000
(Stock issue costs incurred)

Problem 31 (continued):

Post-Combination Balance Sheet:

<table>
<thead>
<tr>
<th>Assets</th>
<th>Liabilities and Owners’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash</td>
<td>Accounts payable $ 144,000</td>
</tr>
<tr>
<td>64,000</td>
<td>Notes payable 415,000</td>
</tr>
<tr>
<td>Receivables 213,000</td>
<td></td>
</tr>
<tr>
<td>Trademarks 625,000</td>
<td></td>
</tr>
<tr>
<td>Record music catalog 1,020,000</td>
<td></td>
</tr>
<tr>
<td>Research and</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
b. Because On-the-Go continues as a separate legal entity, NewTune first records the acquisition as an investment in the shares of On-the-Go.

Journal entries:

Investment in On-the-Go 750,000
   Common Stock (NewTune, Inc., par value) 60,000
   Additional Paid-In Capital 690,000
   (To record acquisition of On-the-Go's shares)

Additional Paid-In Capital 25,000
   Cash 25,000
   (Stock issue costs incurred)

Next, NewTune’s accounts are adjusted for the two immediately preceding entries to facilitate the worksheet preparation of the consolidated financial statements.
31. (continued)

b. Consolidation Worksheet

January 1, 2015

NewTune, Inc., and On-the-Go Co.

Consolidation Worksheet

January 1, 2015


02 - Consolidation Of Financial Information

Consolidation Entries

<table>
<thead>
<tr>
<th>Accounts</th>
<th>NewTune, Inc.</th>
<th>On-the-Go Co.</th>
<th>Debit</th>
<th>Credit</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash</td>
<td>35,000</td>
<td>29,000</td>
<td>(A) 2,000</td>
<td></td>
<td>64,000</td>
</tr>
<tr>
<td>Receivables</td>
<td>150,000</td>
<td>65,000</td>
<td>(A)</td>
<td></td>
<td>213,000</td>
</tr>
<tr>
<td>Investment in On-the-Go</td>
<td>750,000</td>
<td>0</td>
<td>(A) 270,000</td>
<td></td>
<td>102,000</td>
</tr>
<tr>
<td>Trademarks</td>
<td>400,000</td>
<td>95,000</td>
<td>(A) 130,000</td>
<td></td>
<td>625,000</td>
</tr>
<tr>
<td>Record music catalog</td>
<td>840,000</td>
<td>60,000</td>
<td>(A) 120,000</td>
<td></td>
<td>1,020,000</td>
</tr>
<tr>
<td>Research and development asset</td>
<td>-0</td>
<td>-0</td>
<td>(A) 200,000</td>
<td></td>
<td>200,000</td>
</tr>
<tr>
<td>Equipment</td>
<td>320,000</td>
<td>105,000</td>
<td>(A) 480,000</td>
<td></td>
<td>425,000</td>
</tr>
<tr>
<td>Goodwill</td>
<td>0</td>
<td>0</td>
<td>(A) 27,000</td>
<td></td>
<td>27,000</td>
</tr>
<tr>
<td>Totals</td>
<td>2,495,000</td>
<td>354,000</td>
<td></td>
<td></td>
<td>2,574,000</td>
</tr>
</tbody>
</table>

Accounts payable

Notes payable

Common stock

Additional paid-in capital

Retained earnings

Totals

Note: The accounts of NewTune have already been adjusted for the first three journal entries indicated in the answer to Part b. to record the acquisition fair value and the stock issuance costs. The consolidation entries are designed to:

- Eliminate the stockholders’ equity accounts of the subsidiary (S)
- Record all subsidiary assets and liabilities at fair value (A)
- Recognize the goodwill indicated by the acquisition fair value (A)
- Eliminate the Investment in On-the-Go account (S, A)

c. The consolidated balance sheets in parts a. and b. above are identical. The financial reporting consequences for a 100% stock acquisition vs. a merger are the same. The economic substances of the two forms of the transaction are identical and, therefore, so are the resulting financial statements. The difference is in the journal entry to record the acquisition in the parent company books.
32. (40 minutes) (Prepare a consolidated balance sheet using the acquisition method).

a. Journal entries to record the acquisition on Pacifica’s records.

<table>
<thead>
<tr>
<th>Investment in Seguros</th>
<th>1,062,500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Stock (50,000 × $5)</td>
<td>250,000</td>
</tr>
<tr>
<td>Additional Paid-In Capital (50,000 × $15)</td>
<td>750,000</td>
</tr>
<tr>
<td>Contingent Performance Obligation</td>
<td>62,500</td>
</tr>
</tbody>
</table>

The contingent consideration is computed as:

$130,000 payment × 50% probability × 0.961538 present value factor

<table>
<thead>
<tr>
<th>Revenues</th>
<th>(1,200,000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expenses</td>
<td>890,000</td>
</tr>
<tr>
<td>Net income</td>
<td>(310,000)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Retained earnings, 1/1</th>
<th>(950,000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net income</td>
<td>(310,000)</td>
</tr>
<tr>
<td>Dividends declared</td>
<td>90,000</td>
</tr>
<tr>
<td>Retained earnings, 12/31</td>
<td>(1,170,000)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cash</th>
<th>86,000</th>
<th>85,000</th>
<th>171,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receivables and inventory</td>
<td>750,000</td>
<td>190,000</td>
<td>(A) 10,000</td>
</tr>
<tr>
<td>Property, plant and equipment</td>
<td>1,400,000</td>
<td>450,000</td>
<td>(A)150,000</td>
</tr>
<tr>
<td>Investment in Seguros</td>
<td>1,062,500</td>
<td>(A) 357,500</td>
<td></td>
</tr>
<tr>
<td>(S) 705,000</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Research and development asset | (A)100,000 | 100,000 |
| Goodwill | (A) 77,500 | 77,500 |
| Trademarks | 300,000 | 160,000 | (A) 40,000 | 500,000 |
| Total assets | 3,598,500 | 885,000 | (A) 40,000 | 3,778,500 |

| Liabilities | (500,000) | (180,000) | (680,000) |
| Contingent performance obligation | (62,500) | | (62,500) |
Professional Services Expense

\[
\begin{array}{l}
\text{Cash} & 15,000 \\
\text{Additional Paid-In Capital} & 9,000
\end{array}
\]

b. and c.

<table>
<thead>
<tr>
<th>Pacifica</th>
<th>Seguros</th>
<th>Consolidation Entries</th>
</tr>
</thead>
<tbody>
<tr>
<td>(3,598,500)</td>
<td>(885,000)</td>
<td>1,072,500</td>
</tr>
</tbody>
</table>

**Answers to Appendix Problems**

33. (25 minutes) Journal entries for a merger using legacy purchase method.
Also compare to acquisition method.

**a. Purchase Method**

1. Purchase price (including acquisition costs) \( \$635,000 \)
   - Fair values of net assets acquired \( \$525,000 \)
     - Goodwill \( \$110,000 \)

**Journal entry:**

- Current Assets \( 80,000 \)
- Equipment \( 180,000 \)
- Trademark \( 320,000 \)
- Goodwill \( 110,000 \)
- Liabilities \( 55,000 \)
- Cash \( 635,000 \)

2. Acquisition date fair values:

- Purchase price (including acquisition costs) \( \$450,000 \)
- Fair values of net assets acquired \( \$525,000 \)
- Bargain purchase \( \$75,000 \)
**Allocation of bargain purchase to long-term assets acquired:**

<table>
<thead>
<tr>
<th></th>
<th>Fair value</th>
<th>Total reduction</th>
<th>Asset reduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment</td>
<td>$180,000</td>
<td>36% x $75,000</td>
<td>$27,000</td>
</tr>
<tr>
<td>Trademark</td>
<td>$320,000</td>
<td>64% x 75,000</td>
<td>$48,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$500,000</strong></td>
<td></td>
<td><strong>$75,000</strong></td>
</tr>
</tbody>
</table>

**Journal entry:**

Current Assets 80,000

Equipment ($180,000 – $27,000) 153,000

Trademark ($320,000 – $48,000) 272,000

Liabilities 55,000
Cash 450,000

33. continued

**b. Acquisition Method**

1. Consideration transferred $610,000
   
   Fair values of net assets acquired 525,000
   
   Goodwill $85,000

**Journal entry:**

Current Assets 80,000

Equipment 180,000

Trademark 320,000

Goodwill 85,000

Liabilities 55,000
Cash 610,000

Professional Services Expense 25,000
Cash 25,000

2. Consideration transferred $425,000
   
   Fair values of net assets acquired 525,000
   
   Gain on bargain purchase ($100,000)

**Journal entry:**

Current Assets 80,000

Equipment 180,000
Trademark

| Chapter 02 - Consolidation Of Financial Information |

Liabilities 320,000
Gain on Bargain Purchase 100,000
Cash 425,000

Gain on Bargain Purchase 100,000
Cash 425,000

Professional Services Expense 25,000
Cash 25,000

34. (25 minutes) (Pooling vs. purchase involving an unrecorded intangible)

a. Purchase Pooling

| Inventory $ 650,000 $ 600,000 |
| Land 750,000 450,000 |
| Buildings 1,000,000 900,000 |
| Unpatented technology 1,500,000 -0- |
| Goodwill 600,000 -0- |
| Total $4,500,000 $1,950,000 |

b. Pre-acquisition revenues and expenses were excluded from consolidated results under the purchase method, but were included under the pooling method.

c. Poolings, in most cases, produce higher rates of return on assets than purchase accounting because the denominator typically is much lower. In the case of the Swimwear acquisition pooling produced an increment to total assets of $1,950,000 compared to $4,500,000 under purchase accounting. Future EPS under poolings were also higher because of lower future depreciation and amortization of the smaller asset base.

Managers whose compensation contracts involved accounting performance measures clearly had incentives to use pooling of interest accounting whenever possible.
According to FASB ASC (805-10-55-25):
If it is not clear whether an arrangement for payments to employees or selling shareholders is part of the exchange for the acquiree or is a transaction separate from the business combination, the acquirer should consider the following indicators:

a. Continuing employment. The terms of continuing employment by the selling shareholders who become key employees may be an indicator of the substance of a contingent consideration arrangement. The relevant terms of continuing employment may be included in an employment agreement, acquisition agreement, or some other document. A contingent consideration arrangement in which the payments are automatically forfeited if employment terminates is compensation for postcombination services. Arrangements in which the contingent payments are not affected by employment termination may indicate that the contingent payments are additional consideration rather than compensation.

b. Duration of continuing employment. If the period of required employment coincides with or is longer than the contingent payment period, that fact may indicate that the contingent payments are, in substance, compensation.

c. Level of compensation. Situations in which employee compensation other than the contingent payments is at a reasonable level in comparison to that of other key employees in the combined entity may indicate that the contingent payments are additional consideration rather than compensation.

d. Incremental payments to employees. If selling shareholders who do not become employees receive lower contingent payments on a per-share basis than the selling shareholders who become employees of the combined entity, that fact may indicate that the incremental amount of contingent payments to the selling shareholders who become employees is compensation.

e. Number of shares owned. The relative number of shares owned by the selling shareholders who remain as key employees may be an indicator of the substance of the contingent consideration arrangement. For example, if the selling shareholders who owned substantially all of the shares in the acquiree continue as key employees, that fact may indicate that the arrangement is, in substance, a profit-sharing arrangement intended to provide compensation for postcombination services. Alternatively, if selling shareholders who continue as key employees owned only a small number of shares of the acquiree and all selling shareholders receive the same amount of contingent consideration on a per-share basis, that fact may indicate that the contingent payments are additional consideration. The preacquisition ownership interests held by parties related to selling shareholders who continue as key employees, such as family members, also should be considered.

f. Linkage to the valuation. If the initial consideration transferred at the acquisition date is based on the low end of a range established in the valuation of the acquiree and the contingent formula relates to that valuation approach, that fact may suggest that the contingent payments are additional consideration.
Alternatively, if the contingent payment formula is consistent with prior profit-sharing arrangements, that fact may suggest that the substance of the arrangement is to provide compensation.

g. Formula for determining consideration. The formula used to determine the contingent payment may be helpful in assessing the substance of the arrangement. For example, if a contingent payment is determined on the basis of a multiple of earnings, that might suggest that the obligation is contingent consideration in the business combination and that the formula is intended to establish or verify the fair value of the acquiree. In contrast, a contingent payment that is a specified percentage of earnings might suggest that the obligation to employees is a profit-sharing arrangement to compensate employees for services rendered.

Suggested answer:

Note: This case was designed to have conflicting indicators across the various criteria identified in the FASB ASC for determining the issue of compensation vs. consideration. Thus, the solution is subject to alternative explanations and student can be encouraged to use their own judgment and interpretations in supporting their answers.

In the author’s judgment, the $8 million contingent payment (fair value = $4 million) is contingent consideration to be included in the overall fair value NaviNow records for its acquisition of TrafficEye. This contingency is not dependent on continuing employment (criteria a.), and uses a formula based on a component of earnings (criteria g.). Even though the four former owners of TrafficEye owned 100% of the shares (criteria e.), which suggests the $8 million is compensation, the overall fact pattern indicates consideration because no services are required for the payment.

The profit-sharing component of the employment contract appears to be compensation. Criteria g. specifically identifies profit-sharing arrangements as indicative of compensation for services rendered. Criteria a. also applies given that the employees would be unable to participate in profit-sharing if they terminate employment. Although the employees receive non-profit sharing compensation similar to other employees (criteria c.), the overall pattern of evidence suggests that any payments made under the profit-sharing arrangement should be recognized as compensation expense when incurred and not contingent consideration for the acquisition.

ASC RESEARCH CASE—DEFENSIVE INTANGIBLE ASSET (35 MINUTES)

a. The ASC Glossary defines a defensive intangible asset as “An acquired intangible asset in a situation in which an entity does not intend to actively use the asset but intends to hold (lock up) the asset to prevent others from obtaining access to the asset.”

ASC 820-10-35-10D also observes that To protect its competitive position, or for other reasons, a reporting entity may intend not to use an acquired nonfinancial asset actively, or it may intend not to use the asset
according to its highest and best use. For example, that might be the case for an acquired intangible asset that the reporting entity plans to use defensively by preventing others from using it. Nevertheless, the reporting entity shall measure the fair value of a nonfinancial asset assuming its highest and best use by market participants.

According to ASC 350-30-25-5 a defensive intangible asset should be accounted for as a separate unit of accounting (i.e., an asset separate from other assets of the acquirer). It should not be included as part of the cost of an entity's existing intangible asset(s) presumably because the defensive intangible asset is separately identifiable.

b. The identifiable assets acquired in a business combination should be measured at their acquisition-date fair values (ASC 805-20-30-1).

c. A fair value measurement assumes the highest and best use of an asset by market participants. Highest and best use is determined based on the use of the asset by market participants, even if the intended use of the asset by the reporting entity is different (ASC 820-10-35-10). Importantly, highest and best use provides maximum value to market participants. The highest and best use of the asset establishes the valuation premise used to measure the fair value of the asset—in this case an in-exchange premise maximizes the value of the asset at $2 million.

d. A defensive intangible asset shall be assigned a useful life that reflects the entity's consumption of the expected benefits related to that asset. The benefit a reporting entity receives from holding a defensive intangible asset is the direct and indirect cash flows resulting from the entity preventing others from realizing any value from the intangible asset (defensively or otherwise). An entity shall determine a defensive intangible asset's useful life, that is, the period over which an entity consumes the expected benefits of the asset, by estimating the period over which the defensive intangible asset will diminish in fair value. The period over which a defensive intangible asset diminishes in fair value is a proxy for the period over which the reporting entity expects a defensive intangible asset to contribute directly or indirectly to the future cash flows of the entity. (ASC 350-30-35A)

It would be rare for a defensive intangible asset to have an indefinite life because the fair value of the defensive intangible asset will generally diminish over time as a result of a lack of market exposure or as a result of competitive or other factors. Additionally, if an acquired intangible asset meets the definition of a defensive intangible asset, it shall not be considered immediately abandoned. (ASC 350-30-35B)

RESEARCH CASE—CELGENE’S ACQUISITION OF AVILA THERAPEUTICS

(25 Minutes)

1. From Celgene's 2012 10-K report (Note 2), “We acquired Avila to enhance our portfolio of potential therapies for patients with life-threatening illnesses worldwide.”

2. Celgene accounted for its March 7, 2012 acquisition of Avila Therapeutics using the acquisition method. Accordingly, Celgene recorded the acquisition at $535 million.
3. From Celgene's 12/31/12 10-K report (dollars in thousands)

Cash consideration:

- **Cash**: $363,405
- **Contingent consideration**: 171,654
- **Total fair value of consideration transferred**: $535,059

Working capital (cash, A/R, A/P, etc.) **$11,987**

- Property, plant, and equipment **2,559**
- Platform technology intangible asset **330,800**
- In-process research and development product rights **198,400**
- Net deferred tax liability **(164,993)**

**Total fair value of net identifiable assets**: 378,753

- **Goodwill**: $156,306

Celgene determined these allocations by estimating fair values for each of the assets acquired and the liabilities assumed.

4. As shown in the part 3. Schedule above, Celgene included $171.654 million of fair value contingent consideration in its consideration transferred. If all milestones are achieved, contingent consideration could reach a maximum of $595 million.

5. Acquired in-process research and development product rights are accounted for as an intangible asset with an indefinite life.