

0 0 Week (7) Lecture (6) 21 March 2020

Journal Entries Using Standard Costs



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Cost Accounting

Fourth Grade

8/2/2020

Journal Entries Using Standard Costs

• We will now illustrate journal entries for Webb Company using standard costing. The focus is on **direct materials** and **direct** manufacturing **labor**.

Notes:

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- We will depend on numbers we calculated last lecture for variances (price and efficiency)
- In each of the following entries,
 - Unfavorable variances are always debits (they decrease operating income), and
 - Favorable variances are always credits (they increase operating income).



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Last week we explained entry (1)

Journal entry for **price** and **<u>efficiency</u>** variance of direct <u>material</u>

Today we will explain:

- Journal entry for <u>price</u> and <u>efficiency</u> variance of direct manufacturing <u>labor</u>
- Understand how managers use variances

Journal entry 2

• Journal entry for <u>price</u> and <u>efficiency</u> variance of direct manufacturing <u>labor</u>



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wage rate.)

Accounts:

Working-in process (debit) **(\$ 160,000) (budgeted rate and budgeted number of labor hrs) Price variance unfavorable** (debit) (\$18,000)

Efficiency variance unfavorable (debit) (\$20,000)

Wage payable control (credit) what is actually paid to worker (\$ 198,000) (measures the actual amounts payable to workers based on the actual hours they worked and their actual wage rate.)

2. Work-in-Process Control

(10,000 jackets × 0.80 hour per jacket × \$20 per hour)160,000Direct Manufacturing Labor Price Variance
(9,000 hours × \$2 per hour)18,000Direct Manufacturing Labor Efficiency Variance
(1,000 hours × \$20 per hour)20,000Wages Payable Control
(9,000 hours × \$22 per hour)198,000This records the liability for Webb's direct manufacturing labor costs.198,000

Written off Variance Accounts

If the variance accounts are immaterial in amount at the end of the fiscal year, they are written off to the cost of goods sold.

Webb would record the following journal entry to write off the direct cost variance accounts to the Cost of Goods Sold account.

Writing of the variance means that:

- the *debited* variance account should record to be *credit* account and vies versa
- the *credited* variance account should record to be *debit account As shown in following slide*





Cost of Goods Sold Direct Materials Price Variance Direct Materials Efficiency Variance Direct Manufacturing Labor Price Variance Direct Manufacturing Labor Efficiency Variance

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59,600 44,400 66,000 18,000 20,000

You have learned how:

- <u>standard</u> costing and
- variance analysis help managers focus on areas not operating as expected.



Journal entries

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The journal entries here point to another <u>advantage</u> of standard costing systems:

• Standard costs **simplify** product costing. As **each** unit is **manufactured**, costs are **assigned** to it using the **standard** cost of **direct materials**, the standard cost of **direct** manufacturing **labor**.

Variance Analysis

From the **perspective** of **control**, variances should be isolated at the **early** possible **time**.

For example, the **direct** materials **price variance** should be calculated at the time materials are **purchased**. By doing so, managers can take **corrective actions** immediately when a large <u>unfavorable</u> variance is known rather than <u>waiting</u> until after the <u>materials</u> are used in <u>production</u>.

- These corrective actions such as:
- trying to obtain cost reductions from the firm's current suppliers or
- obtaining price quotes from other potential suppliers—

Understand how managers use variances:

Management's Use of Variances

Multiple Causes of Variances

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Using Variances for Performance Measurement

Management's Use of Variances

- Managers and management accountants use variances to **evaluate** performance after decisions are implemented, to trigger organization learning, and to make continuous **improvements**.
- Variances serve as an early **warning** system to alert managers to existing problems or to prospective opportunities.
- When done well, variance analysis enables managers to evaluate the **effectiveness** of the actions and performance of personnel in the current period, as well as to fine-tune strategies for achieving improved performance in the future.

Multiple Causes of Variances

To interpret variances correctly and make appropriate decisions based on them, managers need to recognize that variances can have *multiple causes*.

- Managers must not *interpret* variances in isolation of each other.
- The causes of *variances* in one *part* of the value chain can be the *result* of decisions made in *another* part of the value chain.



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Consider an *unfavorable* direct *materials* efficiency *variance* on Webb's production line.

Possible operational *causes* of this variance across the value chain of the company are:

1. <u>Poor</u> design of products or <u>processes</u>

2. Poor work on the *production* line because of under *skilled* workers or *faulty* machines

3. Inappropriate assignment of labor or machines to specific jobs

4. <u>*Congestion*</u> due to <u>scheduling</u> a large number of rush orders placed by Webb's sales representatives

5. Webb's cloth *suppliers* not manufacturing materials of *uniformly high* quality



Using Variances for Performance Measurement

Managers often use *variance* analysis when evaluating the performance of their employees or business units.

Two attributes of performance are commonly evaluated:

1. <u>Effectiveness</u>: the degree to which a predetermined objective or target is met, such as: the sales, market share, and customer satisfaction ratings <u>of Ready Brew</u> <u>line of instant coffees.</u>

2. <u>Efficiency</u>: the relative amount of inputs used to achieve a given output level. For example, the smaller the quantity of Arabica beans used to make a given number of VIA packets, the greater the efficiency.



