

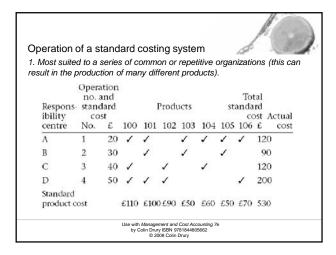
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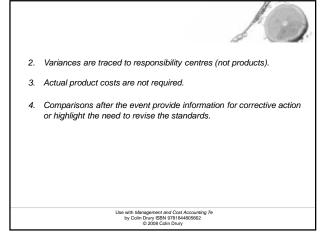


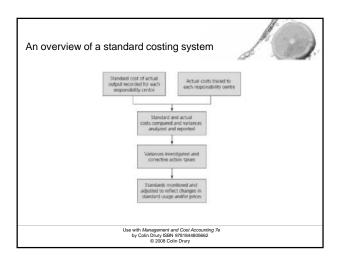
Definition

- Standard costs (expected cost) are target costs for each operation that can be built up to produce a product standard cost.
- A budget relates to the cost for the total activity, whereas standard relates to a cost per unit of activity.
- As a result there are almost always differences between the actual costs and the standard costs, and those differences are known as variances.

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Establishing cost standards 1. Two approaches: (i) past historical records (ii) engineering studies 2. Engineering studies A detailed study of each operation is undertaken: • direct material standards (standard quantity x standard prices) • direct labour standards (standard quantity x standard prices) • overhead standards: • cannot be directly observed and studied and traced to units of output; • analysed into fixed and variable elements; • fixed tend not to be controllable in the short term.

Standard hours produced

1. Used to measure output where more than one product is produced.

Evampla

Standard (target) times: X = 5 hours, Y = 2 hours, Z = 3 hours Output = 100 units of X, 200 units of Y, 300 units of Z Standard hours produced = (100 x 5 hours) + (200 x2 hours) + (300 x3 hours) = 1 800 hours

2. If actual Direct Labour Hours are less than 1 800 the department will be efficient, whereas if hours exceed 1 800 the department will be inefficient.

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Purposes of standard costing To provide a prediction of future costs that can be used for decision-making. To provide a challenging target that individuals are motivated to Profit and loss statement To assist in setting budgets and evaluating performance. To act as a control device by highlighting those activities that do not conform to plan. FIGURE 17.2 Standard costs for inventory valuation To simplify the task of tracing and profit measurement costs to products for inventory valuation. Use with Management and Cost Accounting 7e by Colin Drury ISBN 9781844805662 © 2008 Colin Drury

Direct material variances



1. Material price variance /SP- standard price, AP- actual price, AQ- actual quantity/

(SP – AP) x AQ

(£10 - £11) x 19 000 = £19 000 (Material A)→adverse (£15 - £14) x 10 100 = £10 100 (Material B)→favourable

- 2. Material usage variance
- /SQ- standard quantity/

 $(SQ - AQ) \times SP$

(9 000 units x 2 kg/unit = 18 000 - 19 000) x £10 = £10 000 (Material A) \rightarrow adverse

(9 000 units x 1 kg/unit = 9 000 - 10 000) x £15 = £16 500 (Material B) →adverse

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- 3. Joint price/usage variance
- SQ x (SP AP)= 18 000 x (10 11)= 18 000 (Material A) →adverse
- (SQ AQ) x (SP AP)= (19 000 18 000) x (10 11)= 1 000 (Material A) → adverse
- Summarize: 19 000 (Material A) →adverse
- 4. Total material variance = SC AC /SC- standard cost, AC- actual cost/

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Direct labour and overhead variances



- 1. Wage rate variance /SR- standard wage rate, AR- actual wage rate, AH- actual number of hours worked/
 - $(SR AR) \times AH$

(£9 - £9.60) x 28 500 = £17 100→adverse

2. Labour efficiency variance /SH- standard number of hours worked/
• (SH – AH) × SR

(9 000 units x 3 hours/unit = 27 000 - 28 500) x £9 = 13 500 →adverse

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- Variable overhead expenditure variance
 Flexed budget allowance (AH x SR) Actual cost
 - Flexed budget allowance (AH × SR) Actual cost (28 500 x £2 = £57 000) £52 000 = £5 000→favourable
- 4. Variable overhead efficiency variance

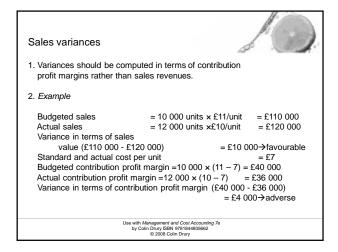
• (SH – AH) × SR

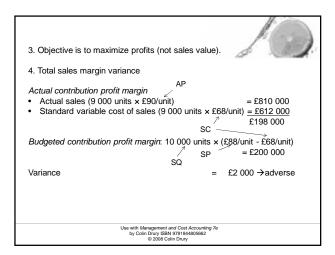
(9 000 units x 3 hours/unit = 27 000 - 28 500) x £2 = £3 000

- 5. Fixed overhead expenditure (spending) variance /BFO- budget fixed overhead, AFO- actual fixed overhead/
 - BFO AFO

£120 000 - £116 000 = £4000 → favourable

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Thank You for Your Attention!

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