

# 6.5

# Comparison of methods



- Cause-and-effect criterion cannot be applied so allocation should be based on benefits received.
- If benefits received cannot be measured allocation should be based on the
- Principle of equity or fairness.
   Literature tends to advocate the net realizable method.
   Also note that with the physical units method the joint cost allocation bears no relationship to the revenue producing power of the individual products.

## Accounting for by-products

- The major objective is to produce the joint products. Therefore the joint costs should be charged only to the joint products.

  Further processing costs should be charged to the by-product.

  Net revenues from the sale of the by-product should be deducted from the cost of the joint process.



Thanks for your attention!

# 6.6

### Example



A - 30 000 kgs

 $B = 50\,000\,\text{kgs}$   $C = 5\,000\,\text{kgs}$  By-product C requires further processing at a cost of £1 per kg after which it can be sold for £5 per kg.

The accounting entries are:
Dr. By-product stock (5 000 × £4)
Cr.Joint process WIP account
With the net revenue due from the production of the by-

20 000

product
Dr. By-product stock
Cr. Cash
With the separable manufacturing costs incurred

Dr.Cash
Cr.By-product stock
With the value of the by-product sales for the period 25 000

Use with Management and Cost Accounting 7e by Colin Drury ISBN 9781844805662 © 2008 Colin Drury

# Relevant costs for decision-making

Joint cost allocations are necessary for financial accounting, but they should not be used for decision-making.

 Example
 £100 000

 Joint product costs
 £100 000

 Sales value at split-off point:
 Product X (5 000 units at £16)

 Product Y (6 000 units at £8)
 £40 000

 If additional costs of £6 000 are incurred on product Y it can be converted into

product Z and sold for £10 per unit.

- Note that the joint costs are irrelevant for this decision since they will be incurred
- irrespective of which decision is taken.

   The decision should be based on a comparison of relevant costs with relevant revenues:

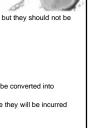
Relevant revenues (additional revenues of 5 000  $\times$  £2) Relevant costs (additional costs of processing) Additional profit from conversion

Use with Management and Cost Accounting 7e by Colin Drury ISBN 9781844805662 © 2008 Colin Drury



5 000

25 000



2