

# Chapter 4

## Systems Design: Process Costing

### Solutions to Questions

**4-1** A process costing system should be used in situations where a homogeneous product is produced on a continuous basis.

**4-2**

1. Job-order costing and process costing have the same basic purposes—to assign materials, labor, and overhead cost to products and to provide a mechanism for computing unit product costs.
2. Both systems use the same basic manufacturing accounts.
3. Costs flow through the accounts in basically the same way in both systems.

**4-3** Costs are accumulated by department in a process costing system.

**4-4** In a process costing system, the activity performed in a department must be performed uniformly on all units moving through it and the output of the department must be homogeneous.

**4-5** Cost accumulation is simpler under process costing because costs only need to be assigned to departments—not separate jobs. A company usually has a small number of processing departments, whereas a job-order costing system often must keep track of the costs of hundreds or even thousands of jobs.

**4-6** In a process costing system, a Work in Process account is maintained for each separate processing department.

**4-7** The journal entry would be:  
Work in Process, Firing..... XXXX  
    Work in Process, Mixing..... XXXX

**4-8** The costs that might be added in the Firing Department include: (1) costs transferred in from the Mixing Department; (2) materials costs added in the Firing Department; (3) labor costs added in the Firing Department; and (4) overhead costs added in the Firing Department.

**4-9** Under the weighted-average method, equivalent units of production consist of units transferred to the next department (or to finished goods) during the period plus the equivalent units in the department's ending work in process inventory.

**4-10** A quantity schedule summarizes the physical flow of units through a department during a period. It serves several purposes. First, it provides information about activity in the department and also shows the stage of completion of any in-process units. Second, it provides data for computing the equivalent units and for preparing the other parts of the production report.

**4-11** In process costing a unit of product accumulates cost in each department that it passes through, with the costs of one department added to the costs of the preceding department in a snowballing fashion.

**4-12** The company will want to distinguish between the costs of the metals used to make the medallions, but the medals are otherwise identical and go through the same production processes. Thus, operation costing is ideally suited for the company's needs.

**4-13** Any company that manufactures products that have some common characteristics and some individual characteristics may want to use operation costing. Examples include textiles, shoes, electronic parts, and clothing.

# Chapter 4 Process Costing Solutions

**Arora M.N.**



## Chapter 4 Process Costing Solutions:

**Cost Accounting: Principles & Practice, 12th Edition** Arora M.N., The book is bundled with all the teaching tools like Learning objectives Summary of the chapter Key terms and a large number of questions for practice Cost Accounting: Principles & Practice, 13th Edition Arora M.N., A UGC recommended textbook for various commerce undergraduate programmes like BCom BBA BBM and BBS Also useful for CA CS ICMA MCom and MBA The revised edition of Cost Accounting Principles and Practice gives students a thorough grounding in cost concepts cost behaviour and costing methods The subject matter has been presented in a student friendly systematic and intelligible manner Every discussion involving conceptual difficulties is immediately followed by a numerical example A large number of charts and diagrams bring to light finer points of the subject and make it easily comprehensible The subject matter has been organized on first things first basis to sustain the interest of the students An authentic book on Cost Accounting which is indispensable for students at the undergraduate level New in this Edition Reworked text for better understanding of the concepts Recent questions from BCom BBA MBA CA and CS examinations Model test papers in Appendix **A Textbook of Cost and Management Accounting, 10th Edition** Arora M.N., 2012 A Textbook of Cost and Management Accounting provides the students with thorough grounding in cost concepts cost behaviour and methods and techniques of cost and management accounting with an understanding of the uses and limitations of cost and financial data for managerial operations The text of the subject matter has been presented in a student friendly simple and intelligible manner Every discussion involving conceptual complexity is immediately illustrated by a numerical example In addition the book contains a liberal sprinkling of charts and diagrams so as to make the subject easily understandable and highlight its finer points The subject matter has been organized on first things first basis for its logical presentation that sustains interest The approach of the book is examination oriented Thus a good number of problems and solutions have been included in its chapters Theoretical and numerical questions have been mostly selected from various examinations Objective type questions have been given to serve as self test by students This is an ideal book for self study New to this edition All chapters thoroughly revised Latest information on Cost Accounting Standards CAS issued by the Institute of Cost Accountants of India ICAI Chapter on Miscellaneous Topics made more contemporary by including some new sub topics and thus re named Advanced Cost Management Techniques Revision and augmentation of practical problems , Solutions to Problems in Elementary Cost Accounting Charles F. Schlatter, 1928 Ebook: Managerial Accounting Whitecotton ; L, 2016-09-16 Ebook Managerial Accounting Managerial Accounting Jerry J. Weygandt, Paul D. Kimmel, Donald E. Kieso, Ibrahim M. Aly, 2018-05-28 Managerial Accounting teaches students the fundamental concepts of managerial accounting in a concise and easy to comprehend fashion Stimulating review materials at the end of each section helps students develop their decision making skills Students are provided the tools and guidance to take more initiative in their learning making them more engaged more prepared and more confident

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