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Printers Costing & Estimating

AIMS:

• To understand the concept and working definition of cost estimation in printing industry.

SHORT DESCRIPTION:

Function of costing and estimating; cost estimating; method of quotation & tender; technical background of an Estimator; ad ministrative function in a printing company; estimation of type works of book and magazine; estimating of digital printing; routine work of estimating; make-ready work for running the press; materials wastage allowance and print finishing work.

DETAIL DESCRIPTION:

Theory:

1. Understand the function of costing and estimating.

- 1.1 Define Costing & Estimating.
- 1.2 Classification of Costing.
- 1.3 Define Job & Marginal costing.
- 1.4 Describe the purpose of Estimating.
- 1.5 Describe the importance of Estimating.
- 1.6 Difference between Costing & Estimating.

2. Understand Cost Estimating.

- 2.1 Describe the method of Costing.
- 2.2 Describe the procedure of Estimating.
- 2.3 Define Budgeted Hourly Rates.
- 2.4 Describe Production Cost and Overhead Cost.
- 2.5 Describe the factors to be considered for Estimating.
- 2.6 Explain the relation of estimating with production cost.
- 2.7 Define Activity based costing and Job Costing.

3. Understand the method of Quotation & Tender.

- 3.1 Define quotation.
- 3.2 Define Unit Cost.
- 3.3 Describe Depreciation Cost.
- 3.4 Define Tender, Work Order Sheet/Job Sheet.
- 3.5 Define customer price.
- 3.6 Difference between quotation and tender.
- 3.7 Describe the relation of quotation and tender with cost estimating.
- 4. Understand technical background of an Estimator.

- 4.1 Describe the Role of an Estimator.
- 4.2 Importance of technical knowledge for preparing accurate estimating.
- 4.3 Time limitation for a particular printing job.
- 4.4 Procedure of selection the printing press and equipment for particular printing job.
- 4.5 Describe the different printing process and production records.
- 4.6 Describe the calculating process of paper weight and ink coverage.
- 4.7 Learning about fixed cost, variable cost and BPIFs costing systems.

5. Understand the administrative function in a printing company.

- 5.1 Explain the procedure of making work order sheet.
- 5.2 Describe the preparation of correct estimating.
- 5.3 Describe the production planning and control.
- 5.4 Describe the procedure of purchasing.
- 5.5 Explain the method of pricing/ invoicing of a product.
- 5.6 Describe the effects of wastage control in cost estimating.
- 5.7 Describe the customer services.

6. Understand the estimation of type works of book and magazine.

- 6.1 Define casting off, copy fitting, casting up and operational times.
- 6.2 Define the calculation, character per line and per page.
- 6.3 Describe page size, number of forma and sheet per book.
- 6.4 Define periodical calculation.
- 6.5 Describe the processing charge of single forma and single color.
- 6.6 Describe the printing charge of a forma per thousand and per color.
- 6.7 Describe the process for calculating operational time of plate exposer & plate processor for preparing image carrier.

7. Understand Estimating of Digital Printing.

- 7.1 Define Digital Printing.
- 7.2 Explain the role of computer to produce accurate estimate.
- 7.3 Describe the advantages of computerized estimating system.
- 7.4 Discuss Digital Front-end & variable Data Printing Costs.
- 7.5 Describe Estimating Mailing and Hybrid Work.
- 7.6 Learning Cost analysis and Estimating Software.
- 7.7 Distinguish between Traditional and Digital estimating system.

8. Understand the routine work of estimating.

- 8.1 Explain full job description of an estimator.
- 8.2 Describe working method of an estimator.
- 8.3 Explain half sheet work, Sheet work and Work & tumble work.
- 8.4 Difference between various working methods.
- 8.5 Materials used in cost estimating.

8.6 Explain the query of standard market price of different raw materials.

9. Understand the make-ready work for running the press.

- 9.1 Define Make readywork.
- 9.2 Explain the make-ready time and print test time of a press.
- 9.3 Define speed of a press to calculate the impress per hour and per color.
- 9.4 Describe the summary of operational time and speed from table work.
- 9.5 Selection of Raw materials as per cost estimating.

10. Understand materials wastage allowance and print finishing work.

- 10.1 Define allowance for paper wastage.
- 10.2 Define ink wastage.
- 10.3 Define wastage of process works.
- 10.4 Define print finishing work.
- 10.5 Describe the manual procedure of print finishing work.
- 10.6 Explain the auto procedure of print finishing work.
- 10.7 Define commercial binding.
- 10.8 Explain how binding make effect on cost estimating.

Practical:

- 1. Calculate the GSM from given sample.
- 2. Find the art and copy preparation cost. (Plate & Positive)
- 3. Calculate the Per Thousand impression rate for different printing machines.
- 4. Find the number of output of particular size from Different size of paper.
- 5. Calculate the number sheets/Forma required for a book of 8.5"x11"size and the number of page will be 96.
- 6. Calculate how much ink needs for particular jobs.
- 7. Calculate the Number of Cutting & Costing for Different type paper
- 8. Estimate to complete a particular job (Letterhead pad: size A4, Color: Four Color, 100gsm Offset quantity: 1000pcs).
- 9. Estimate to complete a particular job (Visiting Card: Size: 3.5x2 inch, Color: Four Color, Board: Art Card: 300gsm, Lamination: Mat & Spot, Quantity: 1000pcs).
- Estimate to complete a particular job (Voucher: Size: 5.5x8.5 inch, Color: Single Color, Board: Paper: 60gsm Auto carbon Paper, Numbering, Perforation, and Quantity: 10Books, Each Book should be 100 pages).
- 11. Calculate to complete a particular job (Invitation card: Size: 13"x5" inch, Color: Four Color,
- 12. Board: Paper: 60gsm Color Paper, Numbering, Perforation, Quantity: 10Books, Each Book should be 100pages)
- 13. Calculate the total cost required for printing a calendar of four pages of four colors of demy size.
- 14. Estimate the paper and board of corrugation boxes & cartoons
- 15. Estimate the films, foils, paper & board used in gravure and Flexo printing.