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The formula for factored unit cost estimation is as follows: where  $C_i$  is the purchase cost of a major component  $i$  and  $f_i$  be a factor accounting for the cost variation of the item,  $n$  is the number of components included in the construction project. Formula Based on Labor, Material and Equipment. Suppose that a construction project is decomposed into  $n$  tasks.

UNIT COST METHOD OF ESTIMATE | CIVIL ENGINEERING  
Estimating and Costing are closely the same things. The

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estimate is defined as the process of calculating or computing the various quantities and the expected expenditure to be incurred on a particular work or project. The estimate gives the probable cost of the work.

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## ESTIMATION AND COSTING MCQ PDF - Civil Engineering Objective

Cost Estimating Solution Step 1: Convert the CF to CY:  
 $3078CF/27(CF/CY) = 114$  Cys Step 2: Find the cost of the crew per hour =  $(1 \times 60) + (3 \times 30) = \$150$  Step 3: Find the number of hours required for the crew to work =  $114/30 = 3.8$  day 8 hours in a day  $3.8 \text{ days} \times 8 \text{ hr/days} = 30.4$  hrs = I always round up in estimates to 31 hrs

## Cost estimating - Civil Engineering

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Construction Cost Estimating | Civil Engineering News

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