

Chapter 2: Urban Services

For All Practical
Purposes



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Section 2.5 Critical Path Analysis

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- Critical Path Analysis
 - Most often, scheduling jobs consists of complicated tasks that cannot be done in a random order.
 - Due to a pre-defined order of tasks, the entire job may not be done any sooner than the longest path of dependent tasks.
- Order-Requirement Digraph
 - A directed graph (digraph) that shows which tasks precede other tasks among the collection of tasks making up a job.
- Critical Path
 - The longest path in an order-requirement digraph.
 - The length is measured in terms of summing the task times of the tasks making up the path.

An order-requirement digraph, tasks

A – E with task times in the circles

Critical Path is BE = 25 + 27 = 52 min.

