

Scheduling

Information Policy

12



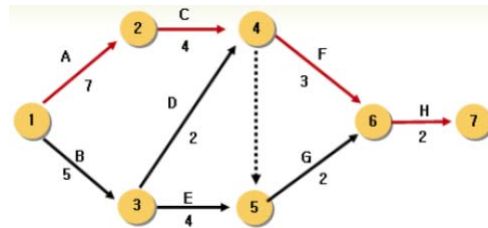
- 164323-01
- Information Policy
- Spring 2014
- Sync Sangwon Lee, Ph. D
- D. of Information & Electronic Commerce
- WONKWANG University

00. Contents

- 01. Scheduling
- 02. Scheduling 1: Work Breakdown and Order
- 03. Scheduling 2: PERT/CPM
- 04. Scheduling 3: Minimal Use Time
- 05. Scheduling 4: Correlation of Cost and Time
- 06. Scheduling 5: Gantt Chart

04. Scheduling 3: Minimal Use Time

- Enumeration



경로	소요시간
A-C-F-H	7+4+3+2=16
A-C-G-H	7+4+2+2=15
B-D-F-H	5+2+3+2=12
B-D-G-H	5+2+2+2=11
B-E-G-H	5+4+2+2=13

임계경로

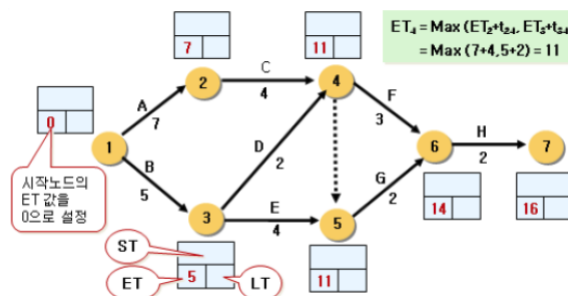
Procedure of Scheduling

- Work Breakdown and Order
- PERT/CPM
- Minimal Use Time
- Correlation of Cost and Time
- Gantt Chart

Software Engineering: A Practitioner's Approach, R.S. Pressman, McGraw-Hill

04. Scheduling 3: Minimal Use Time

- For-warding Estimated Time



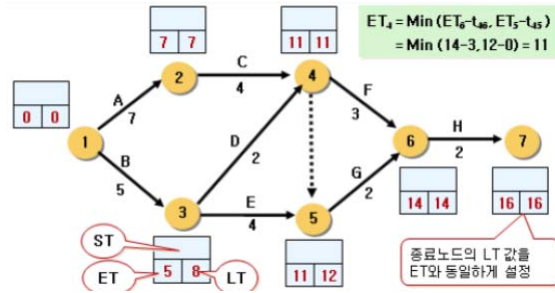
Procedure of Scheduling

- Work Breakdown and Order
- PERT/CPM
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- Gantt Chart

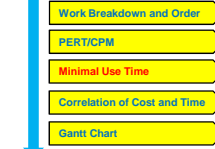
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04. Scheduling 3: Minimal Use Time

- Back-warding Estimated Time



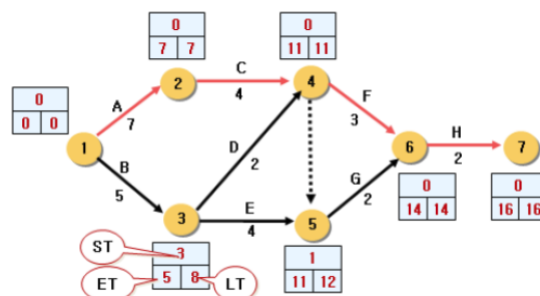
Procedure of Scheduling



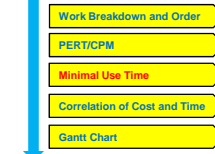
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04. Scheduling 3: Minimal Use Time

- Spare Time



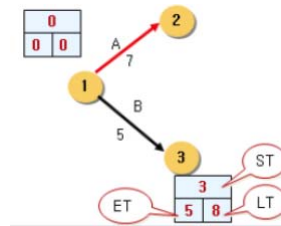
Procedure of Scheduling



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04. Scheduling 3: Minimal Use Time

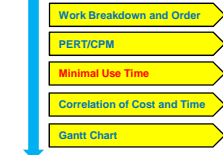
- Schedule



$$\begin{aligned}
 ES_2 &= ET_1 \\
 EF_2 &= ET_1 + t_a \\
 LF_3 &= LT_1 \\
 LS_3 &= LT_1 - t_b
 \end{aligned}$$

$$\begin{aligned}
 ES_{12} &= ET_1 = 0 \\
 EF_{12} &= ET_1 + t_{12} = 0 + 5 = 5 \\
 LF_{12} &= LT_2 = 8 \\
 LS_{12} &= LT_2 - t_{12} = 8 - 5 = 3
 \end{aligned}$$

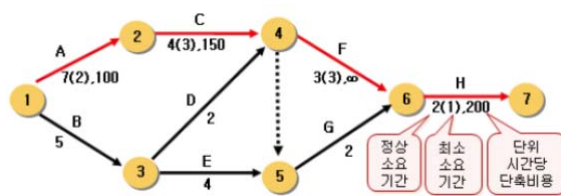
Procedure of Scheduling



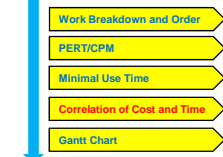
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05. Scheduling 4: Correlation of Cost and Time

- Activity Selection



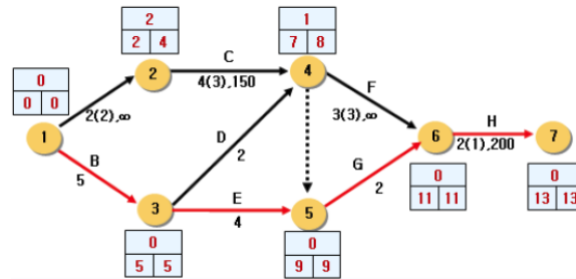
Procedure of Scheduling



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05. Scheduling 4: Correlation of Cost and Time

- Updating PERT/CPM



Procedure of Scheduling

- Work Breakdown, and Order
- PERT/CPM
- Minimal Use Time
- Correlation of Cost and Time
- Gantt Chart

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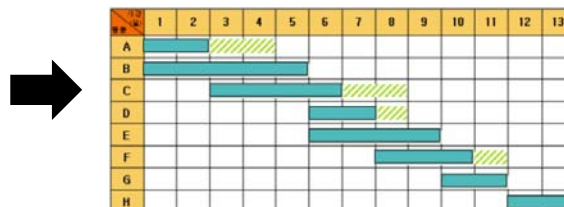
06. Scheduling 5: Gantt Chart

- Gantt Chart

작업	선행작업	소요기간	ES	EF	LS	LF
A	-	2	0	2	2	4
B	-	5	0	5	0	5
C	A	4	2	6	4	8
D	B	2	5	7	6	8
E	B	4	5	9	5	9
F	C, D	3	7	10	8	11
G	C, D, E	2	9	11	9	11
H	F, G	2	11	13	11	13

Procedure of Scheduling

- Work Breakdown, and Order
- PERT/CPM
- Minimal Use Time
- Correlation of Cost and Time
- Gantt Chart



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