

PENNSSTATE



IE 419

Work Design: Productivity and Safety

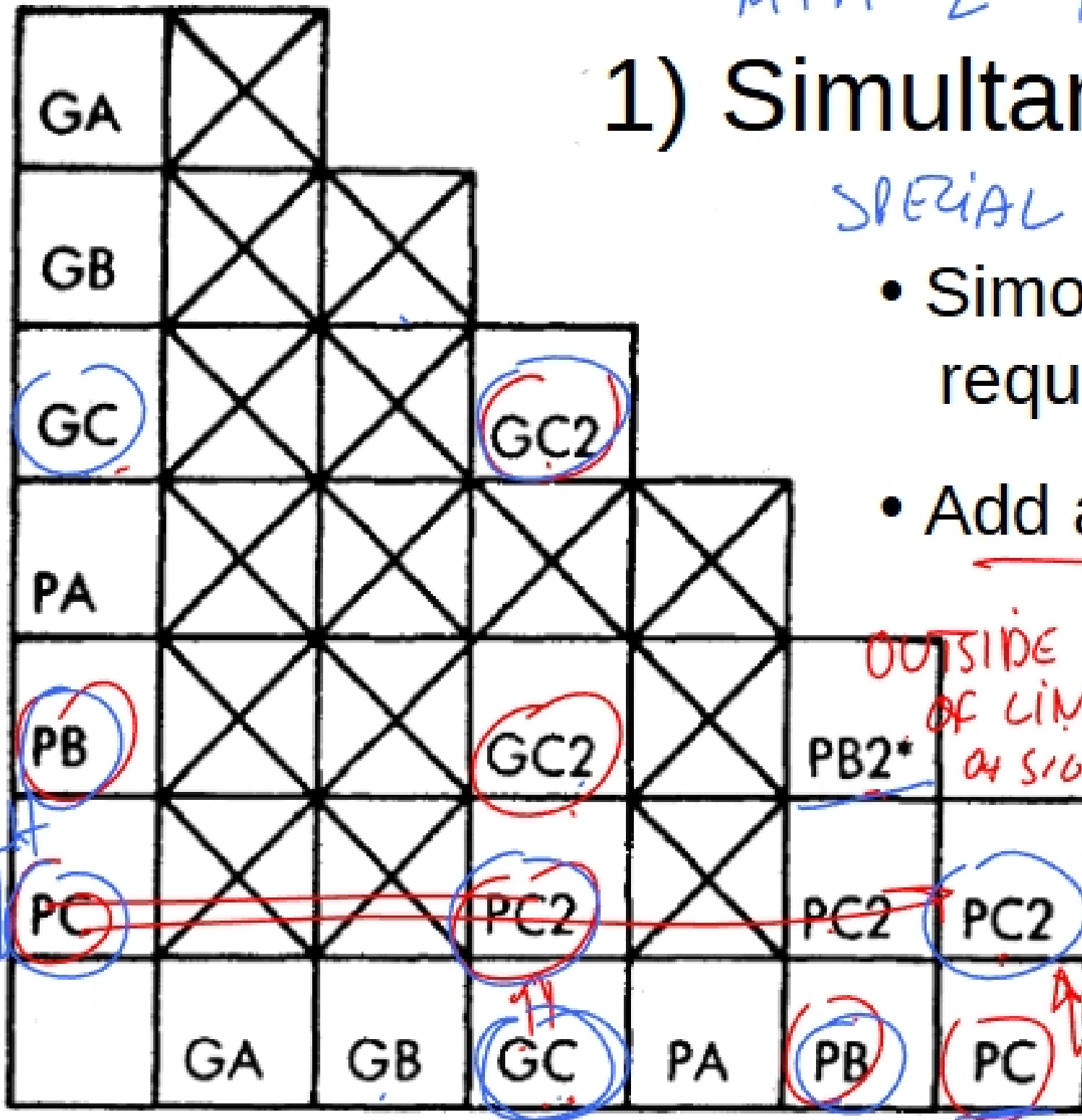
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Class #13

1) Simultaneous Motion

SPECIAL CASES

- Simo difficult motions require more time
- Add a penalty 2 C-TYPE



LH	TMU	RH
<u>PC6</u>	26	<u>PC6</u>
PC2	21	PC2
57		

GC6	19	GC6
GC2	14	GC2
33		

* If PB _____ is performed simultaneously with PB _____, an addition of PB2 is made only if the actions are outside the normal area of vision.

Other Special Cases

2) Principle of limiting motion

- For two different motions for **each** hand
- Use the longer time

CIRCLED OUT

GB 12^{MV} GB 18
 14 13 18

3) Principle of combined motion

- For two combined motion in **one** hand
- Use longer time

R17
 13 F 9
 GB 18
 18

4) R is included in C-type motions

→ $\frac{26}{26}$ PC6 15PB6
~~6~~ R 6 R
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