Understanding PMstudy Process Chart
• Please refer to the PMstudy Process Chart which has been provided in the PMP-prep course.

• This is a brain-dump and should be jotted down from memory within the first 20 minutes of PMP exam. Refer to it regularly during the exam.
Top row shows the five different Project Management Process Groups:

1. Initiating
2. Planning
3. Executing
4. Monitoring & Controlling
5. Closing
# Project Management Knowledge Areas

Left column shows the nine different Knowledge Areas

1. Integration
2. Scope
3. Time
4. Cost
5. Quality
6. Human Resource
7. Communications
8. Risk
9. Procurement
All processes are shown in boxes e.g. Processes in Integration Chapter are:

- Initiating: Develop Project Charter.
- Planning: Develop Project Management Plan
- Executing: Direct and Manage Project Execution
- Monitoring and Controlling: Monitor and Control Project Work, Perform Integrated Change Control
- Closing: Close Project or Phase

Please note: We will be discussing each process in detail in the class
Important Process Outputs are shown in Red Color e.g.
Output of Direct and Manage Project Execution is Deliverables
Output of Close Project is Final product, service, or result transition.

Question: Look at the process chart and identify what is the important output from Define scope Process?

Ans: Project scope statement
Arrows show that output from one process becomes an input to the subsequent process e.g.

- Output of Define scope is Scope Statement – this becomes an input for Create WBS process
- Output of Define Activities is Activity List – this becomes an input for Sequence Activities Process.
Process Chart Formulae

- 2nd page of PMstudy Process Chart shows important formulae required for PMP exam.

- Please memorize all these formulae (which will be further discussed in the class).

### Earned Value Formulae

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Term Definitions (only for reference. Do not reproduce in PMP Exam)</th>
<th>Formula</th>
</tr>
</thead>
<tbody>
<tr>
<td>PV</td>
<td>Planned Value</td>
<td>EV - PV</td>
</tr>
<tr>
<td>EV</td>
<td>Earned Value</td>
<td></td>
</tr>
<tr>
<td>AC</td>
<td>Actual Cost</td>
<td>EV - AC</td>
</tr>
<tr>
<td>SV</td>
<td>Schedule Variance</td>
<td>EV / PV</td>
</tr>
<tr>
<td>CV</td>
<td>Cost Variance</td>
<td>EV / AC</td>
</tr>
<tr>
<td>CPI</td>
<td>Cost Performance Index</td>
<td>EV / AC</td>
</tr>
<tr>
<td>SPI</td>
<td>Schedule Performance Index</td>
<td>EV / PV</td>
</tr>
<tr>
<td>EAC</td>
<td>Estimate at completion</td>
<td>1. AC + ETC</td>
</tr>
<tr>
<td>EAC</td>
<td>Estimate to complete</td>
<td>2. AC + BAC - EV</td>
</tr>
<tr>
<td>EAC</td>
<td>Estimate to complete</td>
<td>3. AC + (BAC - EV) / CPI</td>
</tr>
<tr>
<td>VAC</td>
<td>Variance at completion</td>
<td>BAC - EAC</td>
</tr>
<tr>
<td>TCPI</td>
<td>To complete performance index (based on SPC)</td>
<td>BAC - EV / BAC - AC</td>
</tr>
<tr>
<td>TCPI</td>
<td>To complete performance index (based on EAC)</td>
<td>BAC - EV / EAC - AC</td>
</tr>
</tbody>
</table>

### Procurement Formulae

<table>
<thead>
<tr>
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<th>Formula</th>
</tr>
</thead>
<tbody>
<tr>
<td>AF</td>
<td>Actual Fee, TO = Total Cost, AC = Actual Cost, BSR = Seller's Share Ratio, TF = Target Fee</td>
<td>(((TO - AC) * BSR) + TF) / TF</td>
</tr>
</tbody>
</table>

### Hints for PMstudy Process Chart (no need to reproduce in final PMP exam)

1. The PMstudy Process Chart should be stored on memory 15 minutes before you start answering questions in PMP exam. So, practice and memorize as much as possible.
2. You do not need to write down the Term Definitions in the final PMP exam (i.e., black text in the page).
3. For Earned Value calculations:
   * Formula for BCI: RCV = EV and is same as cost performance index (CPI).
   * All values have CPI as first term and other terms that are CPI.
4. For project planning and control processes, Preplan is key. Identify all activities (or PMI Deductions) compared with the latest updated documents. Outputs and inputs are usually included.
5. Changes may lead to the actions (e.g., identification of change and update to project plan).
**Hint:** All processes which begin with “Develop” or “Create” have the main output same as what is mentioned in the process. E.g.

- Main output of “Develop Project Charter” is “Project Charter”
- Main output of “Create WBS” is “WBS”

**Question:** What is the main output of Create WBS?
**Ans:** WBS
Hint: Shows Plans (how to) for the process. Primary output is “…. management plan” for all such marked processes example:
Output of Develop Project Management Plan is “Project management plan”
Output of Collect Requirements is “Requirements management plan”
Output of Plan Quality is “Quality management plan”
Moreover, ITTO for all such processes are similar

Question: What is the main output of Plan Communications?
Ans: Communications Management Plan

Please Note: Only exception is Develop Human Resource Plan whose output is “Human resource plan”
For all Monitoring and Control Processes, Inputs are WPI, Deliverables (from Executing Process) compared with the relevant Plan Documents. Outputs and Inputs are usually Include:

- Change requests (Preventive Action, Corrective Action, Defect repair).
- Updates

Question: From the PMstudy Process Chart, count how many processes are there in Monitoring and Controlling Phase?

Answer: 10
Please understand and memorize the PMstudy Process Chart before coming for the PMstudy classroom training.
Please clarify if there are any doubts about PMstudy Process Chart with the faculty during the class.

Also, please note that all processes and formulae will be covered in detail in the class.
Open House Discussion

Thank you