

CMM Level

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- Capability Maturity Model
- It is a way to measure the maturity of an organization's software process.
- It is a methodology used to develop and refine an organization's software development process.
- The model describes a five-level evolutionary path of increasingly organized and systematically more mature processes

CMM Level

- The higher the level, the better the software development process, hence reaching each level is an expensive and time-consuming process.

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1. Level 1 - Initial
2. Level 2 - Repeatable/Managed
3. Level 3 - Defined
4. Level 4 - Quantitatively Managed
5. Level 5 - Optimizing

Level 1- Initial

- Company has no standard process for software development.
- It also does not have a project-tracking system that enables developers to predict costs or deadline with any accuracy.
- Success of the organization majorly depends on an individual effort, talent, and heroics.
- Unstable environment for software development.
- No basis for predicting product quality, time for completion, etc.

Level 2- Managed

- Company has installed basic software management processes and controls.
- But there is no consistency or coordination among different groups.
- Requirements are managed and processes are planned, performed, measured, and controlled.
- Projects are better estimated, better planned and more flexible.
- Quality is integrated into projects.
- Costing might be high initially but goes down overtime.
- Ask more paperwork and documentation.
- Focuses on establishing basic project management policies.
- Experience with earlier projects is used for managing new similar natured

Level 3 – Defined

- Company has pulled together a standard set of processes and controls for the entire organization so that developers can move between projects more easily and customers can begin to get consistency from different groups.
- Documentation of the standard guidelines and procedures takes place.
- Focus on consistent output
- It focuses on the enhancement of knowledge and skills of the team members including the developers and ensuring an increase in work efficiency.

Level Four: Managed

- At this level, organization set a quantitative quality goal for both software process and software maintenance.
- In addition to implementing standard processes, company has installed systems to measure the quality of those processes across all projects.
- At this maturity level, the performance of processes is controlled using statistical and other quantitative techniques, and is quantitatively predictable.

Maturity Level 5 – Optimizing

- Company has accomplished all of the above features and can now begin to see patterns in performance over time, so it can tweak its processes in order to improve productivity and reduce defects in software development across the entire organization.
- Focused on productivity and reduce defects in software development across the entire organization.
- The Key characteristic is incremental and innovative technological improvements.