based on the users view.

like 1- DFD, ER dian, deuta dictionante.

developed.

Devide Flow Diagram flow of data through a process or system. Here I low of duta meens taking inputs, processing them and then generating outputs. In general terms, DFDs can be defined as visved representation of information flew within a system. Database input (system) output Objectives of DFDs 1- DFDs, helps us to understand the functioning and limits of a system. 2. It is used to show the scope end boundaries of asystem as a whole. 3. It can be used as a communication tool 6/w system analyst and system manager. 4. There is no condition in DFD as well as no dicision meeting and no order of events. components of DFD! O Entities (@ Process: O 3 Deuter Store: [@ Deuta flow: -Levels of DFD

1 O-Level DPD: - Inthus complete system

is represented as single process.

> provides em overall picture.

@ 1-Level DFD: Level I provides a

3 2-Level DFO: It consists of more

as compared to devel 1.

each function.

they impuet.

⇒It is also known as content diagram.

more deteriled view of the level

> represent moin function and how

deteriled description of the system

> represent the processes within

SEI-CMM > Software Engineering Institute SEI-CMM > Capability menturity muchel SBI-CMM is not a softwere process model . It is a framework that is used to analysis the approach & technologies followed by any organization to develop seftware SEI-CMM call be defined as askerdard product. framework based on which software development organization classifed into different capability levels. Levels are defined on the key process area; steige 5 Thevels optimized. Stage 4 Level 4 managed. Steige 3 Trevel3 Defined State2 Level 2 Re Peakebly stage 1 revel 1 initial Level 1: - Processes Unpredictable · lesser quality employes & audity of product is also not good. · management is not defined clearly. Level 2: uses repeatable Process flow · Organization are more decision on cost estimation well known project management · Well known, Level 3: structures management process · uses definite flow for development process · Creating documents in each please. · Every one in organization is goore of their roles and responsibilities. Level 4! · ouglified Management and focuses on quality deliverable products. · uses various measures of self assessment both for preduct. Level 5. Migh audity products following well defined maragement process sputtern. · Prequently evaluates process.

ISO-9000

Internutional seftware organization is a group or consortium of 63 countries esterblished to plen and fusters steundardisation.

> Iso declare its 9000 series of skeudord in 1987. It serves as a reference for the contract blw incle perclent parties.

> It is an independent, non-government) > simply a way to ensure quality in the international, for developing abundances softwere. international for developing standards. organization

Types of Iso-9000 quelity stemberds

(1) ISO-9000: It is a series of sterolards develop by ISO These steindords how been develop for assuring quality for manufacturing and service inclusives

(1) ISO-9001: - Gurrent version is released in sept 2015

· These stemplands is provided to the organization which exe, involve in executing new products.

. It focuses for quality assurance in design, development 4 production. Ex: S/w Development organisation.

(iii) ISO-9002: These stendereds is applicable to those companies which do not clesion product but involve in manufacturing. Ex: steel and car company.

(iv) ISO-9003 - Applicable to the organization that are only invove in the installation and testing of the product.

(v) ISO-9004: These stemplands gives the guidelines for enhancing an organization aboutly to acheive sustained success.

.It provides a self assessment

tools # Iso-9000 Certification An organization de termines to obtain 180 cestification applies ISO registron office for xegistration.

The existicutive process consist of the

O Application O Pre-assessment following stages:

3 Decument Review and Adequercy & Audit

4) Compliance Audits

5 Registration 6 Continued inspection.

Software Quality Assurance (80A)

⇒ Set of activities such as processes, procedure \$ focus on improving the process of development and removes the problems.

=> Grenerally the quality of the software is verified by the third-party organization

Elements of softwere anality Assurance

Ostendards @ Reviews 3 Testing

@ Error lanalysis & change management @ Education @ security management

& Seyety @ Risk Manggement.

Advantages

· Increases alients confidence

· soa seves money.

· Boost custemers satisfaction.

· Promotes Productivity and Efficiency. · Prevents from unforseen emergencies.

· Reduces and time client conflicts.

Disadvanteiges

· somtimes difficults to empliment.

· Time Consuming.

· High cost.

. It cannot prevent waste of resources when preduct is fell ty.

Verification and validation

verification: It is the process to ensure whether the product that is develop is right or not. It verify whether the clevelop precluct fullful the requirements that we have.

· verification is stutie.

· verification means we are building product

whether me seftware process of checking the mork. It is the process of checking the validation of the product their is it check what we are developing is the right product. It is the

· It is the validation of actual of expected product.