

QE Training Part 1 Cheat Sheet by mnp003 via cheatography.com/30206/cs/8959/

Introduction			SDLC Models (cont)				SDLC Models (cont)			
Manual Testing 1. Takes more time	Automation 1. Takes less time	V- Model	-Test in all	ADV: - continuous	DIS: -if you do	Agile (Iteration	- Implementation/D	-won't evelop outdate		
2. Cheaper if executing 1,2, or 3 times	executing 1,2, or 3		phases		not test correctly;wr ong product	Detail Sprints 1-2 weeks)	er Testing -QA/Acceptance Testing -(Deployment)	fast;ad -4 itera		
3. Execute Manually First 4. Non-stable build SDLC Models	Don't automate anything not linked or completed Executing more than 3 times	Iterative (small version of agile)	Repitition				Evaluation/Prioritz -Detailed Requirements -Design/Analysis	ration		
Waterfall - (for Requiremen small Gathering project) -Designing - Implementat -Testing	simple consuming -easy -deliver a wrong to product ation follow -teams don't interact -	Spiral	Planning, Risk Analysis, Evaluatio n, Engineeri ng	-unit testing -create a prototype of each design	-keeps iterating -takes more time - complicated to understand	Stages of SDLC (Ask for Access) 1. Requirement Gathering -what does client want -analyze,pr - feasibile? much time?				
-Deploymen -Maintenand						2. Designi How it will	ng (Architecture; look)	-reliable -estimate time,cost,res analysis w/ te challenges?		



By mnp003 cheatography.com/mnp003/

team

Not published yet. Last updated 29th August, 2016. Page 1 of 3. Sponsored by **Crossv** Learn to solve cryptic http://crosswordcheat



QE Training Part 1 Cheat Sheet by mnp003 via cheatography.com/30206/cs/8959/

Stages of SDLC (Ask for Access) (cont)

6. -enhancements

Mainte -bug fixes

nance -new feature
 additions
 -Acceptance
 Testing
 (alpha/beta)

Testing
(alpha/beta)
-Alpha:done by
testers; go to the
csutomer's,install
,test it

Software Development Life Cycle

testing

-Beta: Live

A process to develop quality software

A process we follow to develop and deliver

SDLC is a process used to design, develop, and test high quality software

Continuous Process

Meets or Exceeds customer's expectations

Reaches completion within times and cost estimates

Assures that we are

☐ Meeting the requirements

■ Deliver on time

□Should be quality

Software Testing

process of watching with the requirements

© check for correctness, completeness, and quality

 $\ \square$ if it is missing something it is a bug

□ 1)Validation 2)Verification

□requirement doc

□business doc

□software

meets requirements

works as expected

a can be implemented with the same characteristics

STLC (Software Testing Life Cycle)

1.Requir ement	-properly documented/updated	- verific ation
2. Design Test Strategy	-how to test -what to test? tools?framework? required resources	-how will you decide what is going to be done
3.Test Planning	-who will test - resources/schedule/TC	-what you are going to test in each phase
4. Test	-write TC	

STLC (Software Testing Life Cycle) (cont)

5. -software -server to deploy Enviornme -hardware nt Setup testing environm ent -automate Automation TC automate test the 1st software execute later

7. Test -execute tests
Execution

8. Report -report -tell m-Defects defects report -log defect defects against -log automation defect against automatio nanager of defects

9. -defects -what's
Regression fixed fixed or
Test not

10. Test -create and submit

Principles of Software Testing

Reports

Principle -prove there are defects

(presence of defects)

Principle -100% testing

(exhaustive is

impossible)

Principles of Software Testing (cont)

Principle -Early Testing
3

Principle -Defect clustering;
4 categorize based on severity, highest priority,needs

Principle -Pesticide 5 Paradox dependen cies

Principle -Testing is -log 6 context defects

dependent -what you're testing for

-Absence

of errors- chances
fallacy of
missing
the
errors

Bugs Can Be...

Principle

Defect Incident Inconsisten
cy

Fault Anomaly Product

Problem Variance Product Incidence

Error Failure Feature



By mnp003

cheatography.com/mnp003/

Case Develop ment

> Not published yet. Last updated 29th August, 2016. Page 2 of 3.

Sponsored by **CrosswordCheats.com**Learn to solve cryptic crosswords!
http://crosswordcheats.com



QE Training Part 1 Cheat Sheet by mnp003 via cheatography.com/30206/cs/8959/

Verification & Validation/QA/QC			Levels of Testing (cont)			Testing Techniques (Gray Box)			Testing Methodologies (c			
Verification	-is the require ment proper	-are we on the right track? -static documents	-audits	User Acceptance Testing	- Alpha:lab, what's in production	- Beta: Produ- ction(end	authority Disadvantages:Partial code		test	on	-if interface sharing b working a -to ensure unauthori	tw the sas spec
Validation	building the right thing	-dynamic	-whether we have built it right -system testing	Testing Techniques (Black Box) Don't have to understand/touch code No access to code Check functional and nonfunctional Advantages: efficient, unbiased, easy to execute, non intrusive			Testing Meth Governance Testing		nform to olicies,	Service level Testing	Function al testting, Perform ance Testing, Security Testing	comp nsive state of qu
Quality Assurance Quality	process oriented -assure quality	-STLC - implement process	preventive activities				Process Testing	-services are operating collectively as specified	process being followed or not?			
Control	Product- oriented-	corrective process -test cases	product - corrective process	testing, blind inefficient, testing)			Unit Testing/Serv ice- Component Level	-test the code	function ality			
(-line check of c			Testing Techniques (White Box) understand designs, programming language, unit test cases (execute and develop) Advatages: effective, early defect identifying, reveal hidden code flaws, full code pathway capable Disadvantages:Difficult to scale, cultural stress, highly intrusive, difficult to maintain			System Testing	-business requirement s defined and met acceptance	-entire system works end-to- end			
on Testing System Testing	ence -encti to-e onalit test	dperfori	mance, ibility,					criteria				
				Testing Tech Mixture of Test black can analyze trights	black and wh	ite access,						



By mnp003 cheatography.com/mnp003/

Not published yet. Last updated 29th August, 2016. Page 3 of 3. Sponsored by **CrosswordCheats.c** Learn to solve cryptic crosswords! http://crosswordcheats.com