Software Configuration Manager

Build and Release Engineer

Training Syllabus

Session1: Overview of Entire Course

What is SDLC ( *Agile Methdology, Waterfall methodology*)

What is configuration Manager/Build Engineer, Release Engineer (roles and responsibilities)?

Installation instructions of cygwin for Unix commands practice

Session2: Unix

Unix Practice ( *Bash, Kourne Shell*)- Directories( *creating directories, modifying directories*), Files (*writing files, modifying files using vi, permissions*), Search and Networking commands ( *find, grep, pipe, ping, ps, netstat, tnsping, telnet, kill, /etc/group, /etc/passwd*)

Hw: Finish what is remaining, Read generally about version Control system.

Session3, Session4: Version Control System

Version Control System at least one of (*CVS, SVN,clearcase, git, vss, TFS*) – ( *checkout, checking, repository, sandbox, import, versioning creating branches and merges*), branching and merging strategies.

If we do CVS- you must try SVN and read about clearcase before Session 5 and be ready with any questions

Hw: Finish what is remaining, Read articles provided about version Control system.

Session 5: Review of Session 2, 3, 4 - discussing HW questions and answers, comments.

Session 6 and Session 7: Build Tools (Ant, maven)

Overall Process of building and Deploying in SDLC.

Ant( *Properties, targets – import, clean, compile, package EAR, WAR, JAR, manifest.mf, web.xml*)

Maven (*parentpom. Xml, pom.xml, proper structure of building, maven plugins*)

Session 8: Shell and perl scripting

Perl Shell ( *If, for, while loops, hash, array*) manipulating files (*opening, changing data, reading data*), perl cpan library modules.

Understanding scripts and practicing scripts.

Session 9: review of Session 6,7, 8 discussing HW questions and answers, comments.

Session 10: Deployment tools-

Tomcat (*start and stop services*)

Webshere*( Application Server, JVM, Cluster – horizontal vs Vertical*, *Messaging engine*), Web Server, IIS server, Crystal Server, Artifacts ( *Config files, dba scripts, Crystal reports, website files*)

Discussion of Weblogic, JBoss.

Session 11: Continuous Integration tools

What is continuous Integration tools and why are they needed? What is necessary for CI to work?

Projects for build and deployment automation using (*CruiseControl- config.xml, Visual Build pro, Hudson, Buildforge*)

Other projects that can be created using Continuous Integration tools

Session 12: Discussion of Session 10 and 11, answering any questions or concerns.

Session 13, 14, 15: Resumes and Interview preparations.

Good Luck at Work