**Module 1 : Introduction to Puppet**

* The problem
* Configuration management
* A day in the life of a sysadmin
* Keeping the configuration synchronized
* Repeating changes across many servers
* Self-updating documentation
* Coping with different platforms
* Version control and history
* Solving the problem
* Reinventing the wheel
* A waste of effort
* Transferable skills
* Configuration management tools
* Infrastructure as code
* Dawn of the devop
* Job satisfaction
* The comparison of Puppet with Chef, Ansible and Salt stack

**Module 2 : The Puppet Advantage**

* The Puppet way
* Growing your network
* Cloud scaling
* What is Puppet?
* The Puppet language
* Resources and attributes
* Configuration management
* What Puppet does do ?

**Module 3 : Puppet Installation and Manifest Creation**

* Installing Puppet
* Manifests
* Nodes
* Modules
* Services
* Starting services at boot
* Service status options
* Service control commands
* Resource dependencies
* Files

**Module 4 : Managing Users**

* Security practices
* User resources
* Removing or locking accounts
* Managing SSH keys
* Configuring SSH
* Managing privileges with sudo

**Module 5 : Expression and Logic**

* Conditionals
* If statements
* else and elsif
* Unless statements
* Case statements
* The default case
* Matching multiple cases
* Selectors
* Expressions
* Comparisons
* Equality
* Substrings
* Boolean operators
* Combining Boolean operators
* Arithmetic operators
* Regular expressions
* Operators
* Syntax
* Conditionals

**Module 6 : Reporting and troubleshooting**

* Reporting
* Debug and dry-run modes
* Printing messages
* Monitoring Puppet
* Common Puppet errors