

Courses
that make
you 'Job
Ready'

L2 / L3 Protocol Testing and Test Automation

Networking protocol Testing has become essential for all engineering activities in the Networking Industry. Hardware or software projects in the Networking Industry are increasingly controlled by the Test engineers and Test Engineering organizations.

Like any other engineering, Testing a special skill by itself and has the potential of saving millions of dollars for organizations by helping them release quality products avoiding post-sale quality issues with no broken features or functions. Organizations in India are looking for such talent and therefore resulting in huge career opportunities for fresh graduates and experienced employees .

This course will provide you the complete expertise covering L2/L3 Protocols (Domain), Hands on lab exercises (Implementation, operation and troubleshooting) ,Test and Testing methodologies, L2/L3 Protocol testing (Manual and Automation) .

Course Highlights

- Gain expert level (Enterprise networks) domain expertise in Switching and Routing protocols
- Learn implementing routing and switching protocols on Cisco devices and Switches (both on Real devices and simulators)
- Understand thoroughly Test development life cycle, Test methodologies relevant for networking industry
- Design, Develop and execute a Test project on Cisco devices
- Gain expertise in using Python scripting language for Test Automation



Training method , Approach

- Training will be conducted by a Instructor with over 36 years of Industry and Training experience.
- Hands on practice on real equipment
- Participants will be assigned with a Test Project to consolidate the domain, product, Testing and Scripting skills
- All sessions will be recorded and shared.

Who should attend?

- Engineers interested in pursuing career in “Test Engineering” in the networking industry.
- Engineering Students pursuing Graduation, Master’s Degree.

Course Contents

- **Module 1 (Domain / Product Skills)**
 - L2 / L3 Protocols (with expert level lab exercises) VTP (dot1Q) , PVST , MSTP,OSPF ,BGP
- **Module 2 (Manual Testing / Testing Skills / Test Methodologies)**
 - Test Methodologies, Test plans, Test cases
 - Manual Testing - L2 / L3 Protocols
- **Module 3 (Python)**
 - Data types, Data collection types, Looping (Iteration), Decision making, Modules, OOP, File operations, regular expressions, GUI programming etc.
- **Module 4(Test Automation)**
 - Automated Testing - L2 / L3 Protocols
 - Test Automation Framework, Test Management
- **Module 5(Project)**
 - Project : Conformance Test or Interoperability test of a L2 / L3 Protocol of participant's choice

Training method :

- On-line live sessions

Training Duration

- ~ 60 hrs.
- Check the detailed schedule in the next page

Course Fee (per participant)#

- Check the details in next page

For more details :

- Visit : <https://www.vigven.com/browse/training-programs>
- Or post a message to : training@vigven.com

Group discount available for Institutions, Corporates. Contact us for details



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Course Modules

Module No	Module	Topics	Module Fee (incl taxes)
1	L2,L3 Protocols (Concepts, Details and Hands on Exercises)	<ul style="list-style-type: none"> Switching Protocols : VLAN / VTP, IEEE802.Q, STP, RSTP, PVST and MSTP Routing protocols : RIP, OSPF,BGP 	₹ 6,018
2	Software Testing Methodologies, Manual Testing of L2,L3 Protocols	<ul style="list-style-type: none"> TDLC, Test Methodologies, Test Types Manual Testing L2-L3 Protocols 	₹ 6,018
3	Python and its packages for Test Automation	<ul style="list-style-type: none"> Python for Test Automation 	₹ 6,018
4	Python based Automated Testing of L2,L3 protocols	<ul style="list-style-type: none"> Automated Testing L2 -L3 Protocols 	₹ 6,018
5	Project	<ul style="list-style-type: none"> Design, Planning, Preparation and Execution of a Project 	₹ 6,018

Fee packages

	L2, L3 Protocols	Manual Testing	Python	Automated Testing	Project	Fee (incl taxes)	Participant Profile
Package 1	*	*	*	*	*	₹30,090 ₹ 22,715	New to Networking domain, Software Testing, Protocol Testing and Test automation.
Package 2		*	*	*	*	₹24,072 ₹ 18,880	New to Software Testing, Protocol Testing and Test automation.
Package 3			*	*	*	₹18,054 ₹ 15,340	New to Protocol Testing and Test Automation
Package 4				*	*	₹12,036 ₹ 10,620	New to Test Automation
Package 5					*	₹ 6018	Looking for Project experience, planning, Preparation and execution

Placement Assistance

- Project Guidance
- Resume Preparation
- ‘Cisco Test Bed’ for hands on practice
- Mock Interviews

Trainer — Profile



Samba Murthy (Samba) is a seasoned professional with over 36 years of experience of working with a wide range of technologies which includes RF/ MW, Telecom, Light wave, and Networking.

Samba has the unique experience of successfully delivering professional services / projects in pre-sale / post sale, product management and in Engineering departments. Samba worked on the products developed by reputed organizations like Cisco Systems, Agilent Technologies, ThinkRF, GN Nettest, Scientific Atlanta, Marconi, Wavetek, Advantest etc who all are leaders in their respective areas.

Samba was instrumental in designing several optimal / customized test solutions which includes software development and system integration helping customers gain deep insight into the measurement data for effective decision making. Also, saving valuable time, resources and attain greater measurement consistency.

Having worked in technically intensive tasks all thro his career, Samba has excellent skills in transferring his knowledge to others. As a result, Samba continuously engaged himself in conducting technical training courses for both external clients and internal employees in all the organizations he worked. The clients include Telecom service providers, NEMs, Manufacturers, Educational Institutes and Aero-Space-Defense establishments.



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