

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 37 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 the online 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, RIP, EIGRP , 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 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 :

- Notes, Videos , On-line live sessions and a Project

Training Duration

- ~ 40 hrs (online sessions)
- 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



VIGVEN Tech Mark Private Ltd.

26, RBI Colony, 2nd Main, Ananda Nagar, Bengaluru—560024

Phone: +91 80 2333 9220 | Mobile: +91 8971482778

Sales Email: sales@vigven.com | Support Email: support@vigven.com | Website: www.vigven.com

L2 / L3 Protocol Testing and Test Automation



On-line sessions (Schedule)

S.No	Module	Date	Topics	Fee
1	L2,L3 Protocols (Concepts, Details and Hands on Exercises)	Sat, Sept 9, 2023	VLAN, VTP, IEEE802.Q, STP, RSTP, PVST	₹ 6,018
		Sun, Sept 10, 2023		
		Sat, Sept 16, 2023	RIP, OSPF, EIGRP, BGP	
		Sun, Sept 17, 2023		
2	Software Testing Methodologies, Manual Testing of L2,L3 Protocols	Sat, Sept 23, 2023	Manual Testing of L2 protocols	₹ 6,018
		Sun, Sept 24, 2023	Manual Testing of L3 protocols	
3	Python and its packages for Test Automation	Sat, Sept 30, 2023	Python and its packages for Test Automation	₹ 6,018
4	Python based Automated Testing of L2,L3 protocols	Sun, Oct 7, 2023	Automated Testing of L2 protocols using Python	₹ 6,018
		Sat, Oct 8, 2023	Automated Testing of L3 protocols using Python	
5	Project	Sun, Oct 9, 2023	Design, Planning, Preparation and execution of a testing Project	₹ 6,018

On-line Sessions (Timings) : 9AM to 1PM

Fee packages

Package	Fee (incl taxes)	Discounted fee (incl taxes)
Package 1 (all 5 modules)	₹ 30,090	₹ 22,715
Package 2 (any 4 modules)	₹ 24,072	₹ 18,880
Package 3 (any 3 modules)	₹ 18,054	₹ 15,340
Package 4 (any 2 modules)	₹ 12,036	₹ 10,620



VIGVEN Tech Mark Private Ltd.

26. RBI Colony, 2nd Main, Ananda Nagar, Bengaluru—560024

Phone: +91 80 2333 9220 | Mobile: +91 8971482778

Sales Email: sales@vigven.com | Support Email: support@vigven.com | Website: www.vigven.com



Other details

1. Training will be delivered thro a combination of offline videos, notes and online sessions
2. The course has 5 modules . You can choose any combination of the modules based on your training needs.
3. Videos, notes and training invite will be shared after the fee is paid
4. The online session will start on **9th of September 2023** and will end on **9th of October 2023**
5. Online sessions will be conducted on weekends (Saturdays / Sundays)
6. All the online sessions will be recorded and the recordings will be shared by the end of the day.
7. You can join the sessions from your PC, Tablet or smartphone. Preferably from PC, as it allows you to run the lab exercises on the Cisco devices
8. For any queries / questions , please contact the trainer thro WhatsApp at : +91 9740529935 or +91 9945722611

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.



VIGVEN Tech Mark Private Ltd.

26. RBI Colony, 2nd Main, Ananda Nagar, Bengaluru—560024

Phone: +91 80 2333 9220 | Mobile: +91 8971482778

Sales Email: sales@vigven.com | Support Email: support@vigven.com | Website: www.vigven.com