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) VLAN, VTP, IEEE802.Q ,STP, RSTP, PVST, MSTP, LACP, RIP, OSPF, EIGRP,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)
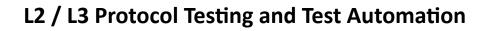- Check the detailed schedule in the next page

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

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On-line sessions (Schedule)

	Module	Date	Module Fee (incl. taxes)
1	L2,L3 Protocols (Concepts, Details and Hands on Exercises) • VLAN, VTP, IEEE802.Q • STP, RSTP, PVST, MSTP • LACP • RIP, OSPF, EIGRP, BGP	Feb 17th,2024	₹ 8,850
		Feb 18th,2024	
		Feb 24th,2024	
		Feb 25th,2024	
		Mar 2nd, 2024	
2	Software Testing Methodologies Manual Testing of L2,L3 Protocol	Mar 3rd, 2024	₹ 5,900
		Mar 9th, 2024	
3	Python and its packages for Test Automation	Mar 10th, 2024	₹ 4,130
4	Python based Automated Testing of L2,L3 protocols	Mar 16th, 2024	₹ 5,900
		Mar 17th, 2024	
5	Project	Mar 30th,2024	₹ 5,900
	Spare Day	Mar 31st, 2024	

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

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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 commence on **17th of February 2024** and will conclude on **31st of March 2024**
5. Online sessions will be conducted on weekends (Saturdays / Sundays) from 9AM to 1PM
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 39 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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