WIPRO'S Blockchain Certification Program

Contents

Overview Summary

Wipro Blockchain certification program is an internal certification program of Wipro. It has 3 stages – L1, L2 and L3, which are detailed in this document.

- You start your journey with Blockchain Bootcamp on ITMS (L1 stage).
- From there get into Hands-on building of Blockchain network on a blockchain platform (L2 stage).
- Then onto building an end-to-end blockchain application (L3 stage)

For each stage, there is an entry & exit criteria defined along with the curriculum available.
At the end of successfully completing L3 stage, you will receive a certificate and it will also be updated in your PSP. Certified (L3) candidate will be preferred for deployment in upcoming blockchain projects.

Introductory text for a section can be set in "Wipro Introduction 1" for a catchy lead-in. A summary of the section, perhaps, or a quote to set the mood. (Arial, 10pt., RGB 100,99,99)

There is a smaller version of the introduction copy called "Wipro Introduction 2" in case you like it better. (Arial, 10pt., RGB 100,99,99)

L1 Stage – Blockchain Boot camp (ITMS eLearning)

L1 Entry Criteria: None.

L1 Curriculum:
The bootcamp is designed for anyone associated with IT industry to do, whether developer to Architect, BA, Sales Or even operations process owners / SMEs. It has something for everyone.

L1 – Blockchain Bootcamp is available in ITMS, for a self-paced learning through videos, followed by quizzes to assess the understanding.

Path: https://newitms.wipro.com/Learning/newhome.aspx >> Learning Initiatives >> Technology >> Select Blockchain in Subcategories >> Blockchain Bootcamp (CUR-2956)

Or you can simply give 'Blockchain Bootcamp' in search and select curriculum "Blockchain Bootcamp (CUR-2956)"

L1 Exit Criteria: **Successfully complete the Bootcamp curriculum with the final quiz in it.**

L2 Stage – Build Blockchain Solutions (eLearning on ITMS / Internet Links and Webex / Classroom trainings)

L2 Entry Criteria: Successful completion of L1 Exit criteria.

L2 Curriculum:
Based on your understanding from bootcamp, you can choose one of 4 platforms to pursue further into L2 & L3 stage – Ethereum, Quorum, Hyperledger, Corda.

L2 curriculum will be available through – Training on ITMS and/or trainings over Webex / classroom.

L2 Training on ITMS : All the platforms' L2 trainings are not available on ITMS yet. But we are working to have them uploaded soon. We have given some other references in section below for self-study while the training gets uploaded on ITMS.

L2 Webex / classroom training sessions - Service Transformation and Talent Transformation jointly

conduct Webex / classroom sessions on Blockchain Technologies' with 1 technology Deep dive into either Ethereum or Quorum or Hyperledger or Corda.

Till ITMS L2 trainings get uploaded, available option for L2 curriculum is Webex & classroom trainings we arrange at regular intervals. (Target 5 trainings a quarter).
Agenda covered is same as ITMS L2 training. Only difference is availability of Live trainer.
Look for 'Wipro Buzz' mailers for communication when a training gets scheduled. Alternately, you can also join 'Blockchain at Wipro' group on Microsoft teams, where you can get information on trainings scheduled. Or write to ask.blockchain@wipro.com.

Below are ITMS curriculum details & references for each platform –

1. Ethereum

ITMS Course 1 - Introduction to Ethereum

Path: https://newitms.wipro.com/Learning/newhome.aspx >> Technology >> Select Blockchain in Subcategories >> Introduction to Ethereum Blockchain Platform (T27934)

ITMS Course 2 - Advance Ethereum

Work in Progress. Not available yet.

Meanwhile, below source can be used to get hands-on knowledge on Ethereum –

For Ethereum : http://www.ethdocs.org/en/latest/
For Solidity Language : https://solidity.readthedocs.io/en/latest/

2. Quorum

ITMS Course – Permissioned Blockchain with Quorum

Work in Progress. Not available yet.

Meanwhile, below source can be used to get hands-on knowledge on Quorum –

https://github.com/jpmorganchase/quorum/wiki

3. CORDA

ITMS Course – Permissioned Blockchain with Corda

At this point no plan of creating ITMS course, as Corda Bootcamp available from R3 Corda on internet is an excellent source. Below source can be used to get hands-on knowledge on CORDA

CORDA Bootcamp on YouTube

https://www.youtube.com/playlist?list=PLi1PppB3-YrVq5Qy_RM9Qidq0eh-nL11N

Or https://vimeo.com/213812040

CORDA Tutorials on CORDA website

http://www.corda.net/develop/index.html

4. Hyperledger Fabric

ITMS Course – Permissioned Blockchain with Hyperledger

Work in Progress. Not available yet.

Below source can be used to get hands-on knowledge on Hyperledger Fabric -

https://hyperledger-fabric.readthedocs.io/en/release-1.4/tutorials.html

- L2 Exit Criteria:

Employees who have completed L2 training Webex / Classroom / ITMS will be provided with an assignment to complete.
Assignment will require hands-on coding to build blockchain solution. Code and results proof will have to be provided for 'Blockchain team' to do the evaluation.

(All necessary details on assignment are available in the document that will be shared with the employee who reaches that stage)

L2 Exit criteria would be successfully complete the assignment and evaluation.

L3 Stage – Capstone Project

L3 Entry Criteria:
- Successful completion of L2 Exit criteria.
- Basic code level knowledge of any one UI services (example - Node JS) and UI technology / language (Example - Angular, React-Redux)

L3 Curriculum:

Implement a small solution (Capstone project) for a given problem statement using either Ethereum / Quorum or Corda or Hyperledger.

Employees successfully completing L2 exit criteria, will be provided with dummy project where the candidate needs to build a small blockchain solution to demonstrate the hands-on knowledge. This will be evaluated by Blockchain Practice Architect. Based on the evaluation success, employee will be certified as "Wipro Certified Blockchain Developer (L3)"

Note that completing a capstone project will involve developing a complete Blockchain application with UI and UI services to work with Blockchain network / smart contracts.
You can use any technology / language for this, but we prefer below as more relevant in current times – UI would be preferred in Angular, React-Redux; UI services layer in NodeJS.
Above is not covered in L2 curriculum as its is not part of core blockchain technology but is essential for anyone developing a blockchain solution. But the relevant trainings are easily on ITMS, Udemy and other internet sources as these are all open source.

During L3 stage, a Blockchain Practice Architect will be provided as a guide, who the candidate can contact for any guidance. Note that there will not be any hand-holding, but help will be provided for any blocker issues & providing direction.

- ### L3 Exit Criteria:
Successful evaluation by panel from Blockchain practice.
Successful candidates will get a 'Wipro Blockchain certified developer' certificate, which will also get updated in your PSP.
Note : Basic UI creation is expected to complete the solution. Evaluation will not be on UI skills.

FAQ :

1. Should L2 be completed for all 4 platforms to move to L3 stage?

Out of your own interest, you can do L2 on multiple platforms. But for L3 eligibility perspective,
just 1 platform L2 exit criteria completion is required.

2. How to join 'Blockchain at Wipro' Microsoft teams group.

Search for 'Blockchain at Wipro' in search bar of Microsoft teams. Right clock on the group. Join the group. Any
employee can join, no restrictions or approvals required.

3. For L2 curriculum – Should I do training on ITMS or WebEx / classroom training or both?

Agenda or coverage is same in ITMS and Webex / classroom trainings. You can do either or both,your choice.
Just completing one of them is the eligibility criteria to get the L2 Exit assignment.

4. What is covered in L2 assignment?

L2 assignment document you receive will have all the details. The assignment will test your handson expertise
with a simple blockchain network you will have to develop. You will not need UI or UI services expertise. All the
necessary references and tips will be provided in L2 assignment document.

5. I have completed L2 training curriculum. How do I nominate or get the L2 assignment?

No nomination is required.
Weekly ITMS dump will provide us information on candidates who have completed L2 on ITMS.
Attendance sheet from Webex / classroom session will provide that attendance.
Above will be used to contact employees and share the assignment.
If for some reason it is missed, you can always send email to 'ask.blockchain@wipro.com' with necessary
details to confirm that you are eligible for assignment and you will be provided with assignment document.
Microsoft teams group will be formed to help candidates collaborate with others attempting the
assignment.

6. How will the L3 Capstone project evaluation be done.

L3 capstone project will be evaluated by a Panel headed by Blockchain Architect.
It will be an interview process of 1 hour.
You will have to demo the solution built and answer questions related to it.
Questions will be to ensure that you have built it on your own and with understanding of
Blockchain concepts & the platform.
Basic UI creation is expected to complete the solution. Evaluation will not be on UI skills.
Code needs to be submitted for evaluation.

7. Does Wipro Blockchain certificate guarantee that I get into Blockchain practice or Live project?

It does give you an edge above anybody else. Blockchain practice would prefer such candidate in the team.
Also, will help you to build a case to get release from your current account / practice.
But Exact timing of this happening would be driven by business demand.

Revision History:

Date	Change Details	Made By	Reviewed By
6-Aug-2019	Base version 1.0	Ajit Gore	Venkatachalam S Mahesh More

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Wipro Limited (NYSE: WIT, BSE: 507685, NSE: WIPRO) is a leading global information technology, consulting and business process services company. We harness the power of cognitive computing, hyper-automation, robotics, cloud, analytics and emerging technologies to help our clients adapt to the digital world and make them successful. A company recognized globally for its comprehensive portfolio of services, strong commitment to sustainability and good corporate citizenship, we have over 160,000 dedicated employees serving clients across six continents. Together, we discover ideas and connect the dots to build a better and a bold new future.

For more information, please write to us at **info@wipro.com**