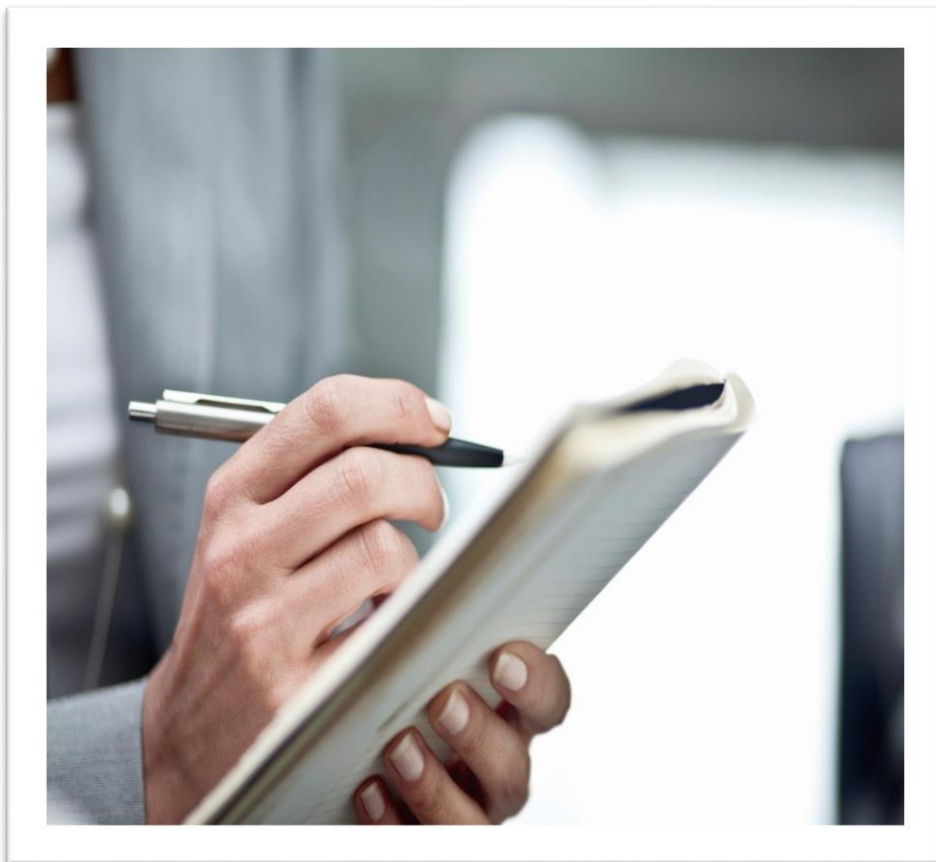


RIDE (FUTURE SKILLING INITIATIVE) PROGRAM

LEARNING GUIDE FOR CLOUD COMPETENCY



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1. About this Document

This is a detailed learning guide for the associates who have been selected to participate in the RIDE Wave 2 training program

2. Who should use this Document

The document is for internal use only. It should be used by associates undergoing training under the RIDE Program, training owners and faculty

3. Introductory Note

Welcome to the RIDE Programme!

Dear Colleagues,

To help us accelerate deployment and enhance the skills of associates on Future Skills, we have designed a high-quality skilling campaign called RIDE. The campaign started from the 17th of April, 2018. Each of the phases of the RIDE program is for a period of 6-8 weeks.

Under this initiative, associates have an opportunity to acquire future skills, practice them, get assessed and certified through an external platform. This will be followed by subsequent deployment in projects.

The RIDE, TLS, Competency, SBU, RMG teams will be working with you closely towards this competence building and deployment initiative over a period of 2 months.

Please remember that this is a program for YOU & it's our sincere request to you to give it your 100%.

Participation in the program is mandatory for every associate who has been selected for the program.

You will continuously receive communication from the Competency team, RIDE team and SBUs.

Best regards for RIDE.

Wish you a happy learning experience,

RIDE Team

4. Overall Program Details

- Each associate will be communicated the Wave 2 skill identified for him/her by the RIDE team
- The programs are offered in blended mode with focus on self-learning through MOOCs platforms and internal content supported with faculty connect sessions on WebEx
- Training owners have been assigned for every competency
- WebEx sessions by Faculty will be conducted on a weekly basis, on Tuesdays and Thursdays, from 3 pm to 4 pm (IST) and on Saturdays from 11 am to 12 pm (IST)
- Participants are expected to spend 12 hours every week to keep pace with the program including 5 hours of hands-on practice on Saturdays
- End course external certifications will be reimbursed for the associates as per the standard company external training and certification policy (refer BMS)

5. Step wise Program Plan

S.no	Key Step	Timeline
1	On being selected for RIDE, attend the opening connect sessions and clearly note the role you have been selected for	Week 1
2	Download the learning guide and go through it with specific emphasis on training owner, faculty, career path and learning path	Week 1
3	Identify the foundation skill for your role and complete the assessment. Contact your training owner for more details	Week 1
4	In case you are unable to complete the assessment, please use the learning links provided. Assessments must be completed within 7 days of the start date	Week 2
5	Register yourself on all the learning portals (using Tech M ID only) specified for your role as per the learning path. Registration guidelines for specific portals are given in the Learning Guide	Week 2
6	Undergo training in your own time as per the sequence provided in the learning path. 12 hours of work per week is expected of you. Keep your training owner informed about your progress	Week 2- Week 6
7	Attend connect sessions as per the schedule. Attendance is mandatory. Reach out to your training owners in case of any assistance. You can also use the CoP to do the same	Week 1- Week 7
8	Stay in touch with your training owner and attend quizzes, assignments and SME connect sessions scheduled for you. Attendance is mandatory for these sessions	Week 1- Week 7
9	You are strongly advised to utilize the training lab facilities for hands on practice on Saturdays. Contact your training owner for more details	Week 3- Week 8
10	RMG-RH will be connecting you to Wave 2 opportunities. Stay on the lookout for such opportunities. Updates will be provided to you regularly via connect sessions/ CoPs and through RMG	Week 7- Week 8
11	Get certified in the core skill for your role at the end of program. Refer to the certification and reimbursement policy available on BMS	Week 7- Week 8
12	Get Ready for Deployment in the Role	Week 8

6. Skill Identification and Participation

This learning guide consisting of internal content (including recorded sessions on MyTube), MOOCs reference, external content, MyBeatPlus Communities of Practice (COP) links, and information on Training Owners/Faculty has been prepared for RIDE participants as mentioned in the previous section.

The subsequent sections contain details related to the following Modules:

Skills/Roles:

Comp etency	Skill	Cluster	RSC	Other Skills Required	Basic Skill
Cloud	AZURE	Develop Highly Scalable Application	Azure PaaS Developer	Java, PHP, Node.JS, Python (Good to have any two)	.NET, SQL, TFS, GIT
	AWS	Cloud Foundation	AWS Cloud Engineer	Good Understanding of Virtualization, Shell Scripting/Power shell Scripting	Cloud Computing Fundamentals e-learning course (SS0698 on DEXT - iLearn)
		Manage Highly Scalable Cloud Platform		AWS Certified Cloud Practitioner	.

Competency	Skill	Cluster	Role	Basic/Other Skills Required	Internal Assessment	Internal Courses	EDX	PluralSight	Others
Cloud	AZURE	Develop Highly Scalable Application	Azure PaaS Developer	Java, PHP, Node.JS, Python (Good to have any two)	(LP01901) Microsoft Azure L1	(MS009) Microsoft Azure L1	Microsoft Azure App Service https://www.edx.org/course/microsoft-azure-app-service	.NET Developer on Microsoft Azure https://www.pluralsight.com/pathways/net-developer-on-microsoft-azure	
	AWS	Cloud Foundation Manage Highly Scalable Cloud Platform	AWS Cloud Engineer	Good Understanding of Virtualization, Basic Cloud Concepts, Shell Scripting/ Powershell Scripting	(LP01890) AWS L1	(MS020) AWS Level1		1. Amazon Web Services (AWS) Fundamentals for System Administrators https://www.pluralsight.com/courses/aws-system-admin-fundamentals 2. AWS Certified SysOps Administrator - Associate https://www.pluralsight.com/courses/aws-certified-sysops-admin-associate 3. AWS Security Fundamentals https://www.pluralsight.com/courses/aws-security-fundamentals	AWS Cloud Practitioner Essentials: https://www.aws.training/learningobject/curriculum?id=16357 AWS Business Professional https://www.aws.training/learningobject/curriculum?id=11289 AWS Technical Professional https://www.aws.training/learningobject/curriculum?id=11276

7. Learning Facilitation

Below is the list of Training Owners/Faculty for the program

Competency	Skill	Training Owner	Faculty
Cloud	AZURE	Sivaraj Ambat <Sivaraj.Ambat@TechMahindra.com>	Vrushali Bhise VB00481902@TechMahindra.com
	AWS		Sharada Reddy Pothuganti SP00419037@TechMahindra.com

Below is the list of TLS Learning Consultants for different business units:

SBU to be handled	LC Name	Email ID	Contact Details
SBU D-CROW	Amol Joshi	jamol@TechMahindra.com	9823852755
SBU DACME	Parag Pimputkar	paragpi@TechMahindra.com	9049800804
SBU D-ASV, VBU BFSI	Ritu Manuja	Manuja.Ritu@TechMahindra.com	9822119596
SBU D-BT	Sanjana Sane	sssanjana@TechMahindra.com	9820831824
SBU D-NS	Sandhya Bordia	bordias@TechMahindra.com	9820618170
CBU CES, CBU EOF, CBU P2P BE	Sindhu Rajendra	SR0041556@TechMahindra.com	9884863939
VBU HLS, SBU D-APJ	Bhargav G	GB00361810@TechMahindra.com	9652191999
SBU D-IND, SBU D-SAEV	Dhanalaxmi Arla	Dhanalaxmi.Arla@TechMahindra.com	9866755338
CBU IMS, SBU D-IES, VBU IOT	Leelavani Sastry	Leelavani.Sastry@TechMahindra.com	9845455733
CBU P&PENG, SBU D-WC	Nagaraj Vaidya	nagarajv@TechMahindra.com	9980790460
SBU D-EMEA	Sandhya Bordia	bordias@TechMahindra.com	9820618170
CBU ESRM, CBU PACES, CIO, SBU_TIM, M_CTO, QWAY	Parkha Kaul	pk0031953@TechMahindra.com	8860491919

8. Communities of Practice and Practice Environments

Internal Communities of Practice:

S.no	COP URL	Name of Owner
1	Cloud RIDE WAVEII	Sivaraj Ambat

External Communities of Practice:

S.no	COP URL	Name of Owner
1	https://azure.microsoft.com/en-in/support/community/	
2	https://forums.aws.amazon.com/	

Below is the list of Skill wise practice platforms and Case Study Assignments for practice:

Competency	Skill	Role	Practice Platform	Case Study/Assignments
Cloud	Azure	Azure PaaS Developer	Azure Cloud platform (Associate needs to sign up for Azure free tier using own credit card)	Cloud Case Study Assignments
	AWS	AWS Cloud Engineer	AWS Cloud platform (Associate needs to sign up for AWS free tier using own credit card)	Cloud Case Study Assignments

9. Internal Assessments & External certifications

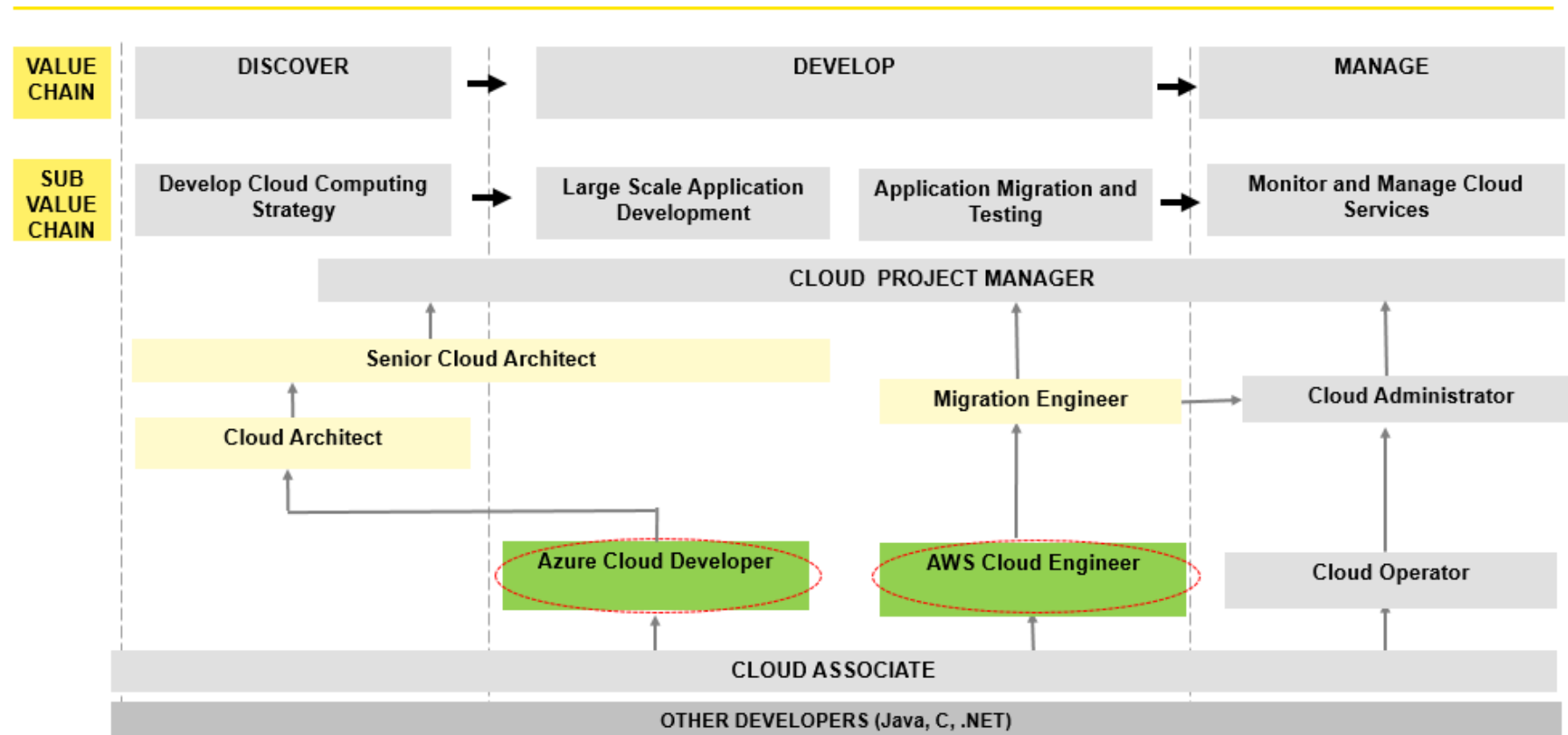
The assessment/ assessments platform to be used for this program have been listed below and have also been mentioned in Section 6.

Role	Cluster	Foundation Skill	Foundation Skill Assessment Link
Azure Developer	Programming Language	.NET Basics (Foundation Skill)	LP02027
AWS Engineer	Programming Language	Cloud Computing L1	LP01265

Competency	Skill	Cluster	RSC	Internal Assessment	External Assessment /Certification
Cloud	AZURE	Develop Highly Scalable Application	Azure PaaS Developer	(LP01901) Microsoft Azure L1	Exam 70-532 – Developing Azure Solutions
	AWS	Cloud Foundation	AWS Cloud Engineer	None	AWS Certified Practitioner
		Manage Highly Scalable Cloud Platform		(LP01890) AWS L1 (Need to replace with Engineer role assessment)	AWS Certified SysOps Administrator

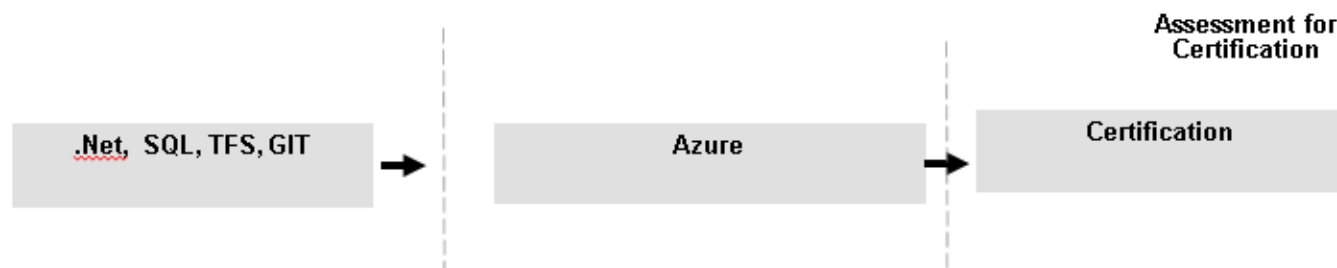
10. Career Path and Learning Journey

Cloud Value Chain, Roles and Career Paths



Azure Developer RSC Under Cloud Competency *With Learning Journey*

Competency	Cluster	Skill	Remarks
Azure Developer	Cloud Foundation	Basic Cloud Concepts, Basic Networking.	Azure Developer (2.1.1)
	Application Design on Platform	1. Azure	



AWS Engineer RSC Under Cloud Competency *With Learning Journey*

RSC	Cluster	Skill	Remarks
AWS Cloud Engineer	Cloud Foundation	Basic Cloud Concepts, Basic Networking.	
	Manage Highly Scalable Cloud Platform	1. AWS	

Linux Basics, Shell
Scripting/Powershell
Scripting

Basic Cloud Concepts,
Basic Networking.



AWS



AWS Certified SysOps
Administrator

Assessment for
Certification

11. Participant Interaction Plan

- SME Connect Sessions will start from 24th April 2018
- Every Tuesday and Thursday from 3:00 PM to 4 PM (IST), SME and Faculty Connect Sessions will be held to discuss progress, queries, case studies, and latest market trends
- Every Saturday Faculty connect sessions will be held between 11:00 AM to 12:00 PM (IST) to resolve the issues, discuss Q&A and way further. Faculty will resolve further queries during the hands-on practice, if any on the community forum.

12. Learning Tracker

The associates may use this template to record their learning progress log/activities.

Azure PaaS Developer: Learning Plan				Effort in hrs	
Milest one#	Due-Date	Description	Modules/Topics	Preparation time	Practice time
		Foundation skills assessment		6	6
1	18-May-18	.NET Basics (LP02027 RIDE-DotNet) Course progress - 5%			
		Developing with .Net on Microsoft Azure-Getting Started Part-1	Module 1:-Azure subscription creation		
			Module 2:-VM creation		
		Developing with .Net on Microsoft Azure-Getting Started Part-1	Module 3:-Building Web Application and APIs	8	4
			Module 4:- Monitoring and scaling Web Applications & APIs		
			Module 5:-Using Cloud databases	6	6
			Module 6:-Cloud Storage		
			Module 7:- Functions		
			Module 8:- Continuous Integration		
2	30-May-18	Milestone-2 Quest Assessment Course progress - 20%			
		Microsoft Azure App Service Part-1	Module 1:-Introduction to App services	7	5
			Module 2:-App Types in Azure App Service		
			Module 3:- Deploying Apps-Deployment Options in Azure App service	6	6
		Microsoft Azure App Service Part-2	Module 4:-Continuous and Staged Deployment		
			Module 5:-Automatic App deployment		

			Module 6:- Managing, scaling and monitoring Apps- Managing Apps		
3	11-Jun-18	Milestone-3 Quest Assessment Course progress - 40%			
		Microsoft Azure App Service Part-3	Module 7:-Scaling Apps	6	6
			Module 8:-Monitoring and Trobleshooting Apps		
			Module 9:-Securing Apps		
			Module 10:-WebJobs and Azure functions		
			Module 1:- Architecture in the cloud		
4	22-Jun-18	Milestone-4 Quest Assessment Course progress - 60%			
		Developing with .Net on Microsoft Azure-Cloud Patterns & Architecture	Module 2:- Cloud Patterns for Resiliency	12	6
			Module 3:- Cloud Patterns for Scalability		
			Module 4:- Cloud Patterns for Testability		
		Developing with .Net on Microsoft Azure-Building Secure Services & Applications Part-1	Module 1:- Software containers		
5	4-Jul-18	Milestone-5 Quest Assessment Course progress - 80%			
		Developing with .Net on Microsoft Azure-Building Secure Services & Applications Part-2	Module 2:- Cloud Automation	12	6
		Developing with .Net on Microsoft Azure-Building Secure Services &	Module 3:- Cloud Microservices		

		Applications Part-3			
			Module 4:- Cloud Identity	7	5
6	16-Jul-18	Milestone-6 Quest Assessment Course progress - 100%			
	25-Jul-18	External certification	certification exam is Exam 70-532 – Developing Azure Solutions		

AWS Cloud Engineer: Learning Plan				Effort in hrs	
Milestone #	Due-Date	Description	Modules/Topics	Preparation time	Practice time
		Foundation skills assessment		8	4
1	18-May-18	Cloud Computing Basics (LP01265/Cloud Certification L1) Course progress - 5%			
		AWS Technical Professional training	Module 1: Introduction to AWS Module 2: AWS Core Services Module 3: AWS Architecture and Solutions (Part 1)	8	4
			Module 4: AWS Architecture and Solutions (Part 2) Module 5: Security and Compliance		
		AWS Business Professional training	Module 1: AWS Value Proposition Module 2: AWS Products and Services Module 3: AWS Total Cost of Ownership and Pricing	8	4
			Module 4: AWS Solutions Part One Module 5: AWS		

			Solutions Part Two		
2	6-Jun-18	Milestone-2 Quest Assessment Course progress - 20%			
		AWS Cloud Practitioner Essentials	AWS Cloud Practitioner Essentials: Introduction AWS Cloud Concepts Essentials AWS Core Services Essentials AWS Security Essentials	7	5
			AWS Architecting Essentials AWS Pricing and Support Essentials AWS Cloud Practitioner Essentials: Bonus Materials AWS Cloud Practitioner Essentials: Course Summary		
3	13-Jun-18	Milestone-3 Quest Assessment Course progress - 40%			
		Amazon Web Services (AWS) Fundamentals for System Administrators	Getting Started Introduction to AWS Understanding AWS Global Infrastructure Understanding AWS Security Measures The AWS Free Tier	8	4
			Working with AWS Storage: Ephemeral and S3 Working with AWS Storage: EBS and Glacier AWS Compute Options Understanding EC2 Pricing	8	4

			Understanding AWS Networking, CloudWatch and Auto Scaling Amazon Database Options, APIs and Lambda Amazon Simple Services CloudFront, CloudFormation, Elastic Beanstalk and CloudTrail	8	4
4	27-Jun-18	Milestone-4 Quest Assessment Course progress - 60%			
		AWS Certified SysOps Administrator - Associate Part-1	Getting Started Understanding Virtual Networking on AWS In-depth VPC Configuration Working with Security Groups and NACLs Understanding and Configuring VPC Access	7	5
			EC2 Instance Types Working with Elastic Block Storage EBS Snapshots and Replication Working with Amazon S3	7	5
		AWS Certified SysOps Administrator - Associate Part-2	Amazon S3 Website Hosting Configuring Elastic Load Balance(ELB) Configuring Auto Scaling Configuring Route 53	7	5
5	11-Jul-18	Milestone-5 Quest Assessment Course progress - 80%			

			Working with Identity and Access Management(IAM) Monitoring with Amazon CloudWatch and Trusted Advisor RDS HA and Load Sharing Understanding Backup Options	7	5
		AWS Security Fundamentals	Overview Access Control Encrypting and Controlling Access to S3 Logging and Auditing Access and Actions Putting it altogether	6	6
6	23-Jul-18	Milestone-6 Quest Assessment Course progress - 100%			
	31-Jul-18	External certification	AWS Certified SysOps Administrator		

13. FAQs

1. What is the objective of the RIDE program?

Answer: The objective of RIDE program is to equip associates with necessary skills needed for role-readiness of Wave 2 competencies for future. The program aims to provide learning, certification, and deployment opportunities for associates in future technologies in the organization

2. What is the duration of the RIDE program?

Answer: Two Months from the start date

3. Who all are eligible for the program?

Answer: Participation in this program is by invitation only. All the associates selected for this program need to be mandatorily part of the program

4. How has a skill been identified for associates?

Answer: Skills have been identified based on the requirements in various competencies within the organization and the current skill set possessed by the associate

5. Is participation in the program optional?

Answer: **Participation in the program is mandatory.** Any exemption requires SBU Head approval on mail along with reasons for the same communicated to Training Owner/ SBU Learning Consultant

6. How will one be deployed after undergoing training in the program?

Answer: During deployment, preference will first be given in the same SBU.

7. How will training be offered during the course of this program?

Answer: Programs will be offered in blended mode with focus on self -learning through MOOCS, supported with weekday and weekend faculty connect sessions through WebEx and communities of practice (COP). Participant are expected to leverage Saturday for practice sessions (at least 5 hours)

8. Where can associates find more information about RIDE?

Answer: The associates can get in touch with their respective Training Owner or Learning Consultant in case any other information regarding RIDE program is required

14. Glossary

S.no	Term	Description
1	RIDE	Future Skilling Initiative With Digital Enhancement
2	TLS	Technical Learning Services
3	SBU	Strategic Business Unit
4	MOOC	Massive Open Online Course
5	COP	Communities of Practice
6	SPOC	Single point of contact
7	F2F	Face to Face

15. Annexures

Below are the guidelines for logging into and registering on eDX and PluralSight:

EDX:

- Register for an eDX account and undergo the course
- Apply for certification discount coupon to TLS
- Book the exam and appear online
- Apply for reimbursement (if applicable)

Few important links for eDX:

S.no	Topic	Link
1	Training & Certification policy for eDX courses	EASY >> Qway >> BMS >> Support Function Process >> Associate Support >> TLS >> General >> Training Certification Reimbursement Policy (PLEASE REFER SECTION-6)
2	List of Available programs with discounted certification price	https://mink.techmahindra.com/kms/esgt/Documents/eDX/EDX courses for TechM.xlsx
3	Discount coupon requisition form	https://mink.techmahindra.com/kms/esgt/Documents/eDX/eDX Certification Request Form.xlsx
4	Email Id for TechM eDX support	TLS.eDXsupport@techmahindra.com
5	Link to eDX FAQ	https://mink.techmahindra.com/kms/esgt/Documents/eDX/FAQ - eDX Training and Certification.pdf

Pluralsight:

- To register on PluralSight, an email needs to be sent to Neelima Jadhav at neelimaj@techmahindra.com
- Neelima will send one request form to be filled by the associate mentioning the BUSINESS BENEFIT of using PluralSight which would require Manager's approval
- Each associate is required to fill the requisition form and send it back to Neelima. Upon confirmation of validity of the contents in the form, the associate will be sent one link for "UNDERTAKING" which would precisely mention the DOs and DON'Ts for accessing PluralSight. The associate would be required to accept the undertaking
- Once the undertaking has been accepted, registration for the associate would stand complete and an invite mail would be sent out. Each associate would need to accept the invite and login to PluralSight with TechM ID

END OF DOCUMENT
RIDE Learning Guide