



AGENDA

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CURRENT STATUS & TRAINING TARGET (1/4)

OVERVIEW TARGET

Achieve "Engineer for test" with role level 2 by September 2018

		Skill	Current	Target	Milestone	
	Verification/	Test item extraction	1	2		
skills	Failure Analysis	Testing	1	2		
		Failure analysis	1	2		
ica		Test environment construction	1	2		Main skills
Technical	MCU Architecture		1	2	Sep 2018	
Tec	Programming		1	2	(2 years)	Common
	Development Process		1	2		technical skills
v	Management		1	2		Soft skills
Soft skills	Communication		1	2		SOIL SKIIIS
_ .	English		600+	850+		

CURRENT STATUS & TRAINING TARGET (2/4)

MAIN SKILLS - VERIFICATION / FAILURE ANALYSIS

Skill		Current status		Target (after 2 years)
Test item extraction	Level 1	 Understand existing test specifications basically. Can extract test items under mentor's guideline. 	Level 2	 Can extract test items from test specifications and related documents. Can make sure that test specifications cover the requirements.
Testing	Level 1	- Can execute testing basically based on existing test specifications.	Level 2	 Can conduct almost test cases without support. Can make test reports and summarize test results.
Failure analysis	Level 1	- Can locate simple bugs and fix them but can't analyze the root causes of them.	Level 2	 Can find out normal bugs and fix them. Prevent similar problems. Can make failure-analysis reports.
Test environment construction	Level 1	- Can understand and improve test environment with support.	Level 2	- Can construct almost test environment without support.

CURRENT STATUS & TRAINING TARGET (3/4)

COMMON TECHNICAL SKILLS

Skill	Current status			Target (after 2 years)
MCU Architecture	Level 1	- Have basic knowledge about RL78 MCU.	Level 2	- Can understand MCU architectures in the assigned products.
Programming	Level 1	- Have basic programming C skills.	Level 2	- Have advanced programming C skills.
Development Process	Level 1	- Have basic knowledge about development process applied in RVC (CMMI, V-Model).	Level 2	- Can apply development process in current tasks efficiently.

CURRENT STATUS & TRAINING TARGET (4/4) SOFT SKILLS

Skill		Current status			Target (after 2 years)
Management Ability	Level 1	- Just follow the assigned tasks time by time (don't have detailed plan for work).		Level 2	- Can manage time for work efficiently (by making exact and detailed plan for both long term and short term).
Communication Ability	Level 1	- Sometimes, can not report status to project members clearly and sufficiently.		Level 2	Can report work status clearlyCan discuss with other teammates.
English	TOEIC 600+	 Can understand technical materials. Often can not listen to Japanese and Indian. 		TOEIC 850+	 Can write basic technical documents clearly and sufficiently. Can communicate in English fluently.

GAP & SOLUTION (1/7) MAIN SKILLS (1/4) – TEST ITEM EXTRACTION

EXTRACTION	s d · C	: an not extract test items from test pecifications and related ocuments. an not make sure that test pecifications are sufficient. an not make test specifications.	 CAUSES: Extract test items without a systematic process. No experience to create templates for a test specification. Don't understand system flow clearly.
		Mentor's Actions	Mentee's Actions
TEST ITEM	SOLUTION	 Provide test specification samples and other reference documents. Guide mentee to investigate efficiently. Confirm output and feedback. 	 Investigate existing test specifications. Investigate and understand the system design flow to create sufficient test cases.



GAP & SOLUTION (2/7) MAIN ROLE SKILLS (2/4) - TESTING

Z Q	te	: an not execute some complex est cases. an not run test fluently.	 CAUSES: Lack of knowledge about operation of testing end experience in test environment. Lack of step by step approach to construct new environment and needed items for the test environment construction. Lack of experience in report and summary.
TESTING		Mentor's Action	Mentee's Action
Ë	NOI	 Provide document and confirm mentee's understanding. 	 Investigate existing test report to study the test code creation and how to report
	SOLUTION	Guide mentee to investigate and execute complex test cases.	Create bug report, fault report, test result summary table based on existing template



GAP & SOLUTION (3/7) MAIN ROLE SKILLS (3/4) – FAILURE ANALYSIS

ANALYSIS	•	Do root issu Can aga	not take countermeasures inst similar problems. not make failure-analysis	•	AUSES: Lack of knowledge of bug analyzing procedure (problem reproduce, isolation, root cause analysis, solution proposal, verification and report) Has no plan to prevent similar problems
A		N	lentor's Action	Me	entee's Action
FAILURE	NOILITIOS	•	Share experience about failure analyzing. Assign issue with proper level of difficulty. Review and feedback mentee output.	•	Investigate the fixed bugs that have been analyzed and how to re-produce and isolate the cause of issue. Study previous failure-analysis report. Make summary documents and action plan to avoid the similar bugs.



GAP & SOLUTION (4/7) MAIN ROLE SKILLS (4/4) – TEST ENVIRONMENT CONSTRUCTION

ENVIRONMENT	eı	in not construct a test evironment without mentor's upport.	 CAUSES: Lack of knowledge related to HW Device, IDE, OS, compiler and debugger.
VIRU		Mentor's Action	Mentee's Action
TEST EN	SOLUTION	 Provide reference documents. Check output and give feedback. 	 Investigate existing test environment (HW device, compiler, OS manual, IDE) and create summary document to note important points.



GAP & SOLUTION (5/7) COMMON TECHNICAL SKILLS

Skill	Gap	Causes	Mentee's action	Mentor's action
MCU Architecture	 Lack of many knowledge about target MCU (RH850 Family and BBE32EP). 	 Lack of experience on how to investigate HW manual deeply. 	Investigate HW manual of RH850 and BBE32EP.	 Provide documents, guideline. Check output and give feedback. Share experience how to investigate
Programming	 Can not manage code, memory efficiently. 	 Short of practicing programming. 	 Learn and practice more. 	efficiently.Guide mentee how to solve
Development Process	 Can not apply development process to the assigned tasks. 	 Have no experience with the development process. 	 Investigate RVC development process and try to apply it into assigned tasks. 	problems and issues.



GAP & SOLUTION (6/7)

SOFT SKILLS (1/2)

Skill	Gap	Causes	Mentee's action	Mentor's action
Management Ability	 Can not mange time for work efficiently. 	 Do not use detailed plan for work. 	 Self-estimate and plan for assigned task. 	 Review and feedback mentee output.
Communication Ability	 Can not discuss about work with other teammates. Can not report information sufficiently and clearly. 	 Do not understand background of teammates. Report without template. 	 Follow weekly reports of other teammates. Report with a clearly template. Report problems and raise proposals in meeting. 	Review/comment mentee's reports.
English	Cannot speak	 Lack of vocabulary. Not communicate by English regularly 	 Use English more frequently in work. Self-study to improve English skills. 	 Make change for mentee to improve English (email, meeting, etc.).

TRAINING PLAN (1/2)

11/2016





Level 1.5

Test item extraction	 Investigate specification 's definition from document Create report, documentation about essential parts of test specification
Testing	- Conduct test and make report - Take note to remember steps - Conduct test and make report without support
Failure analysis	- Investigate old failure report to learn how to analyze and make solution - Create document to record bugs
Test environment construction	- Create document for review when investigate environment - Create, build, execute and debug program without support
MCU Architecture	- Investigate HW manual for working modules - Investigate other modules and understand the interaction between them
Programming	- Find and fix normal C bugs - Have an advanced C programming skills (manage memory and peripherals well)
Development Process	- Can make detail plan for working Can estimate and break down work Can estimate and break down work.
Management Ability	Follow and keep all assigned tasks on-time - Self-estimate and plan for assigned task - Raise alarm if necessary
Communication Ability	Report working status to supervisor by weekly report Write weekly report, discuss with teammates, raise proposal in group meeting
English	TOEIC 750+



09/2018

05/2018

11/2017

05/2017

CONCLUSION

Achieve roll and skills of level 2 after years.

Mentee:

- Self-investigate knowledge related to assigned project and learn from other members to develop myself.
- Follow guideline and apply in project development/ verification.
- Review and propose improvement from existing project.
- Record mistakes to improve myself day by day.

Mentor:

- Share knowledge & experiences about technical & management to mentee.
- Feedback the unclear points from mentee.
- Discuss, support mentee to solve problems and issues.





