

25G MENTOR-MENTEE TRAINING PLAN

JUN 2017 – MAY 2019

DECEMBER 15, 2016

MENTOR: TRUNGNGUYEN-1283

MENTEE: NGHIA NGUYEN-1987

BENCHMARK PROJECT TEAM

R-CAR SOFTWARE SOLUTION 1 GROUP

RENESAS DESIGN VIETNAMCO., LTD

AGENDA

- Training Target **Page 04**
- Current status **Page 08**
- Analysis and solution **Page 10**
- Plan **Page 16**
- Commitment **Page 18**

TARGET



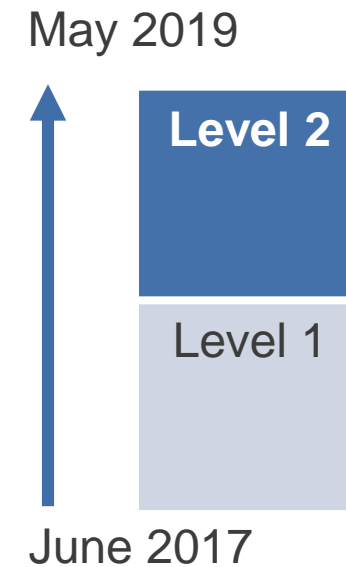
TRAINING TARGET

ROLE SKILL/ABILITY ITEMS

Level 2 Verification/System testing engineer

Role skill/ability items will be defined:

- Overall image of character in next 2 years
- Management ability
- Communication ability
- Technical skill
 - + MCU architecture
 - + Operating System
 - + Development process
 - + Verification/Failure analysis



TRAINING TARGET

Soft skill	Detail	Level
Management ability	<ul style="list-style-type: none"> Can keep schedule and raise alarm if necessary 	2
Communication ability	<ul style="list-style-type: none"> Can report work status in team. 	2
Technical Ability	Detail	Level
SoC architecture	<ul style="list-style-type: none"> Understand architecture of Rcar- Gen3 SoC in detail about in-need modules or registers in manuals 	2
Operating System	<ul style="list-style-type: none"> Got knowledge about the operation method and the structure of Linux-based OS, can self-investigate in-need services, functions to apply to the assigned tasks 	2
Development Process	<ul style="list-style-type: none"> Understand each phase/step in the development of Platform Solution project using Yocto, Bitbake or Toaster, Cross Platform... Can join in discuss/review with other member about development plan 	2

TRAINING TARGET

VERIFICATION/SYSTEM TESTING

Skills	Detail	Level
Test Item Extraction	<ul style="list-style-type: none"> Extract test items from various specifications and design specification. Integrate the extracted test items into test specification. 	2
Test Environment Construction	<ul style="list-style-type: none"> Can set up new test environment and create Test system, Test plan, Test stream on Fuego, Have multimedia knowledge: OpenMAX, media codecs, graphic render... 	2
Testing	<ul style="list-style-type: none"> Conduct tests according to the test specifications Round up the results of the tests and make reports. 	2
Failure Analysis	<ul style="list-style-type: none"> Locate the cause of trouble and make analysis Take countermeasures against similar problems 	2

CURRENT STATUS



CURRENT STATUS

Soft skill	Detail	Level
Management ability	<ul style="list-style-type: none">• Can make short-term plan	1
Communication ability	<ul style="list-style-type: none">• Can write report and email to inform other people	1
Technical Ability	Detail	Level
Verification/System testing	<ul style="list-style-type: none">• Can do test under instruction of mentor• Basic experience about system test with Fuego	1
SoC architecture	<ul style="list-style-type: none">• Basic about structure and architecture of R-Car Gen 3	1
Operating System	<ul style="list-style-type: none">• Have basic knowledge of Linux kernel and Yocto Linux for Gen3	1
Development Process	<ul style="list-style-type: none">• Have basic knowledge about development process of Renesas from basic training course	1

ANALYSIS AND SOLUTION



ANALYSIS AND SOLUTION

SOFT SKILL

	Management ability		Communication ability	
Gap	<ul style="list-style-type: none"> - Make mistakes when report some complicated contents - Take much time to handle daily tasks 		<ul style="list-style-type: none"> - Hard exchange information and report in English language 	
Root cause	<ul style="list-style-type: none"> - Lack of working experience 		<ul style="list-style-type: none"> - English communication is not good 	
Actions	Mentee	Mentor	Mentee	Mentor
	<ul style="list-style-type: none"> • Review old report of other people to improve report skill • Cooperate with other member to do tasks 	<ul style="list-style-type: none"> • Monitor and give feedback for mentee to self-improve 	<ul style="list-style-type: none"> • Review team's report to collect information and study reporting skill • Learn English get TOEIC 650 in next years 	<ul style="list-style-type: none"> • Share instruction/tips to make good report. • Share speaking experience

ANALYSIS AND SOLUTION

TECHNICAL KNOWLEDGE

	Verification/Failure analysis		Development Process	
Gap	Cannot find root cause of some bugs without supports from others		Not understand whole SW development process, not figure out what problem or missing step	
Root cause	Lack of advance knowledge and experience of complicated problems in project		Lack of knowledge of SW development process	
Actions	Mentee	Mentor	Mentee	Mentor
	<ul style="list-style-type: none">• Make note for bugs• Pay more attention to root cause• Investigate more about bug phenomenon	<ul style="list-style-type: none">• Support to analysis bugs• Hint direction to find root cause• Provide related documents	<ul style="list-style-type: none">• Investigate existing development process in RVC and• Try to apply on current tasks	<ul style="list-style-type: none">• Provide standard development process documents and instruction to investigate

ANALYSIS AND SOLUTION

TESTING SKILLS (2/2)

	Extract test items		Test environment construction	
Gap	Still need much support to create test specification		Can not construct test environment without support	
Root cause	Have not joined any kind job before		Lack of knowledge of Linux programming, Linux driver ,multimedia framework (Gstreamer), Yocto usage ...	
Actions	Mentee	Mentor	Mentee	Mentor
	<ul style="list-style-type: none">• Refer to test specifications which were created of other members• Practice and make report	<ul style="list-style-type: none">• Provide related documents• Hint direction to create specification• Check and feedback mentee's report	<ul style="list-style-type: none">• Practice on Yocto build more and investigate related knowledge.• Make report to Mentor.	<ul style="list-style-type: none">• Provide related documents• Check and feedback mentee's report

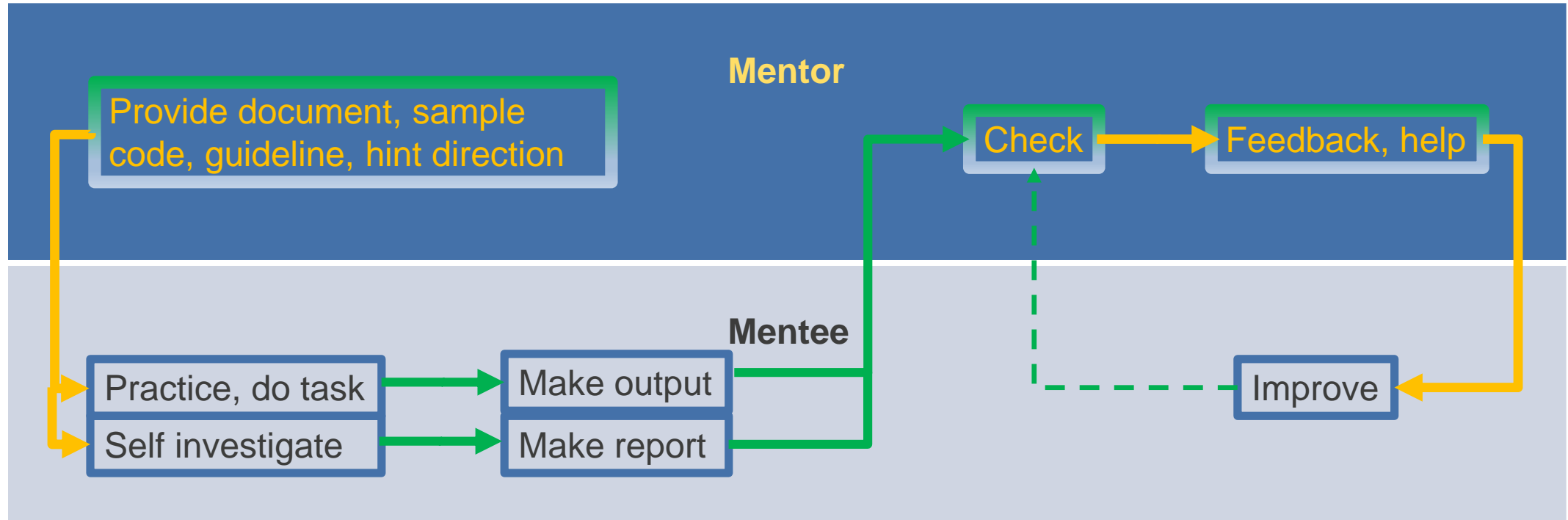
ANALYSIS AND SOLUTION

TESTING SKILLS (2/2)

	Conduct tests and round up the results	
Gap	Can not create good reports or documents	
Root cause	Lack of experience about creating reports	
Actions	Mentee	Mentor
	<ul style="list-style-type: none">• Refer to test reports which were created of other members• Make the report for mentee's task	<ul style="list-style-type: none">• Provide related documents• Hint direction to make report• Check and feedback mentee's report

ANALYSIS AND SOLUTION

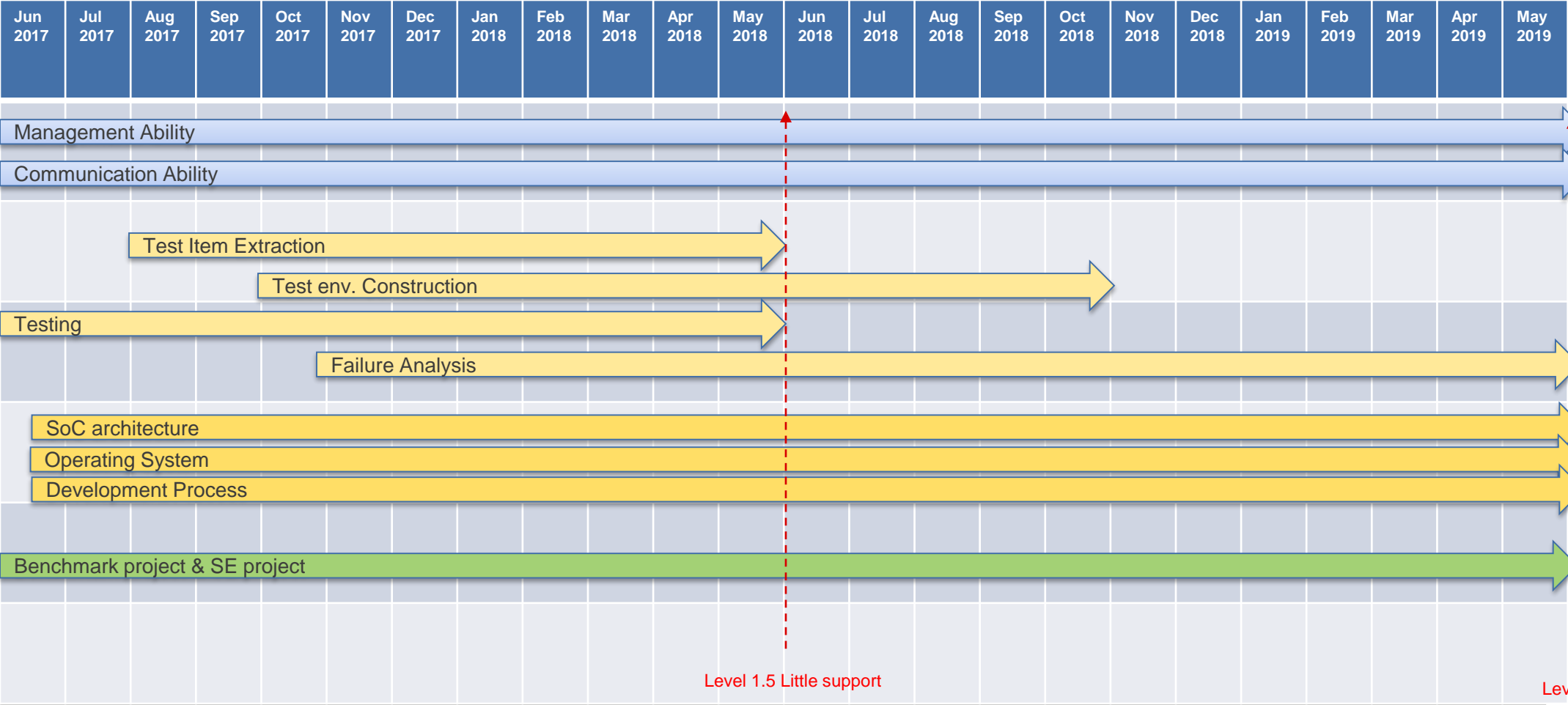
FLOW



PLAN



PLANNING (2/2)



COMMITMENT

After 1 year: Achieve level 1.5 of testing engineers

- Can do testing with some support
- Can make all report



After 2 years: Achieve all skills at level 2

- Can self-do testing without support
- Can give countermeasures and find root cause of bug.
- Self-create test environment

BIG IDEAS FOR EVERY SPACE

Renesas.com