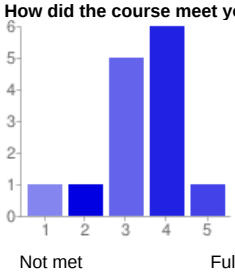
14 responses

Summary See complete responses

How did the course meet your learning objectives?

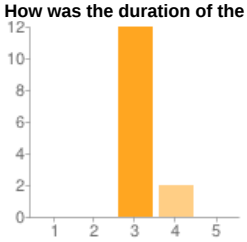


1 -	Not met	**1**	7%
2		**1**	7%
3		**5**	36%
4		**6**	43%
5 -	Fully met	**1**	7%

Comments and suggestions

Course gave a good allround overview of the android system, and as such it was very good. However, as we are a big company with specific areas we need to work on, it would be ideal to spend at least 1 full day digging into the details of whatever areas participants are interrested in. Felt like schedule was too tight to do that... I think there was a relatively good overview and also some hands on experience which was very helpful. I still miss some overview of how the different parts relate. Course was more about the build system and Linux and less about Android. Specifically I this the g ...

How was the duration of the course?

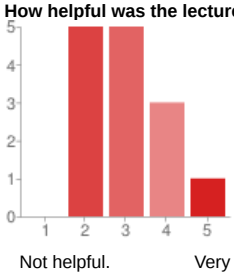


1 -	Too short.	**0**	0%
2		**0**	0%
3		**12**	86%
4		**2**	14%
5 -	Definitely too long.	**0**	0%

Comments and suggestions

It could definitely not be longer. The last day of Android app. development could be cut off. I don't think we in IMC need to know how to make apps. Lecture combined with labs, was very good.

How helpful was the lecture document?



1 -	Not helpful.	**0**	0%
2		**5**	36%
3		**5**	36%
4		**3**	21%
5 -	Very useful	**1**	7%

Comments and suggestions

(-)Lacked some overview slides e.g. dependencies between different files in the build system. (-)Many slides where pure textual. (-)Some of the exercises

could not be made from the descriptions without hints and help. The presented powerpoints contain too much info taht you try to read while at the same time, the presenter talks about it. And you cannot both listen and read the powerpoints at the same time. On ther other hand, it's good to have this detailed info after the training to read it. More diagrams. Less text. Better and cleaner descriptions - in lab's you needed to read ahead to un ...

Will you recommend this document to others?

No. Definitely

1 -	No.	**1**	7%
2		**3**	21%
3		**5**	36%
4		**4**	29%
5 -	Definitely	**1**	7%

Comments and suggestions

document is only relevant if you have the course itself. No really, because you need the info from the lecture. Else I dont think any one else understand the document.

If you have Linux / Android project opportunities, will you use this document again in the future?

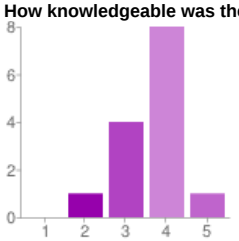
No Definitely

1 -	No	**1**	7%
2		**1**	7%
3		**4**	29%
4		**6**	43%
5 -	Definitely	**2**	14%

Comments and suggestions

I would use Google instead. Yes, as lookup.

How knowledgeable was the instructor?



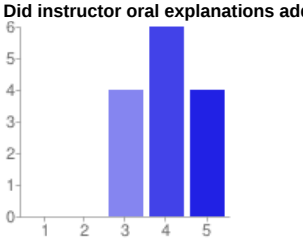
Not enough for meMore than enough

1 -	Not enough for me	**0**	0%
2		**1**	7%
3		**4**	29%
4		**8**	57%
5 -	More than enough	**1**	7%

Comments and suggestions

He seemed quite compenent in the area. Probably very knowledgeable about Linux and kernel issues and less about Android and user space SW. Very focused on Linux and lower layers. Sometimes quite essential information was given which was not in the slides, meaning that the slides may not be self-explanatory. I think he was well knowledged about linux and system level things in Android. But would have been good if he knew more in detail things about drivers and concepts like binders.

Did instructor oral explanations add value to the lecture materials?

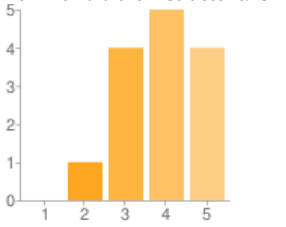


1 -	Not much	**0**	0%
2		**0**	0%
3		**4**	29%
4		**6**	43%
5 -	Definitely	**4**	29%

Comments

and that was needed as I see it. + He was fine at explaining The lecturer assumes too much taht we already know a lot about Linux. He was using to many Linux keywords that were not explained.

How well did the instructor answer questions from the audience?

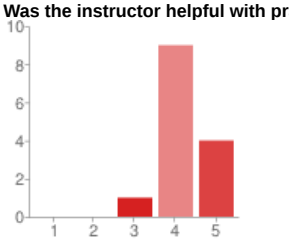


1 -	Poorly	**0**	0%
2		**1**	7%
3		**4**	29%
4		**5**	36%
5 -	Very well	**4**	29%

Suggestions and comments

+Was able to answer most questions No specialised knowledge on our area - but that can't hardly be expected that instructor knows everything.

Was the instructor helpful with practical labs?

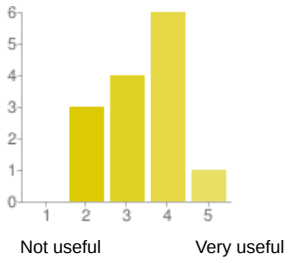


1 -	Not much	**0**	0%
2		**0**	0%
3		**1**	7%
4		**9**	64%
5 -	Very helpful	**4**	29%

Comments and suggestions

Yes, which was also needed as there was not enough explanation.

How useful were the training labs?

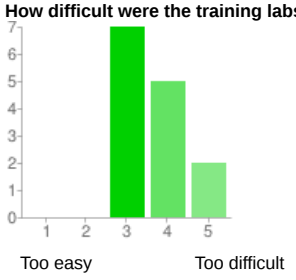


1 -	Not useful	**0**	0%
2		**3**	21%
3		**4**	29%
4		**6**	43%
5 -	Very useful	**1**	7%

Comments and suggestions

I think hands on is very important even though the labs where not that perfect. Too much time was spent waiting for downloading of Android and compilation. Also, the labs were more about the build system and less about the code. Could be nice to have setup at home. For further selfstudy. Eg. using a cheap Raspberry Pie or simular hw Too much time was spent struggling with build issues and other trivialities. The lab exercises are not precise enough in their descriptions, and give little information about what is actually going on, which parts of the architecture is being modified, and what we h ...

How difficult were the training labs?

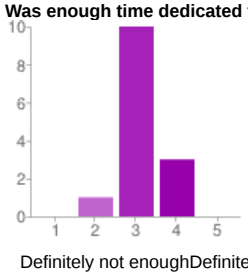


1 -	Too easy	**0**	0%
2		**0**	0%
3		**7**	50%
4		**5**	36%
5 -	Too difficult	**2**	14%

Comments and suggestions

Basically not too complex, but again lacked some info/background. Could use some more help from the training material Lab descriptions were too poor, which meant that the time was used on unimportant stuff.

Was enough time dedicated to practical labs?

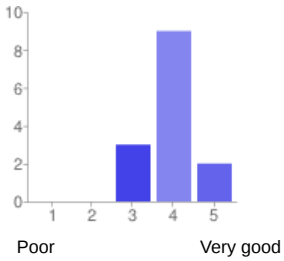


1 -	Definitely not enough	**0**	0%
2		**1**	7%
3		**10**	71%
4		**3**	21%
5 -	Definitely too much time for labs	**0**	0%

Comments and suggestions

If the exercises were described in more detail, the time spent in labs could be reduced, or more labs could be made in the same amount of time.

How do you rate training conditions (room size, equipment, environment)?



1 -	Poor	**0**	0%
2		**0**	0%
3		**3**	21%
4		**9**	64%
5 -	Very good	**2**	14%

Comments and suggestions

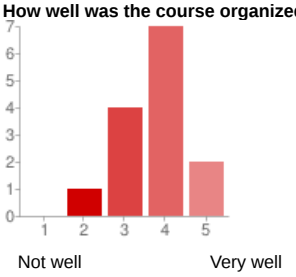
How do you rate the training equipment (mainly computers)?

1 -	Poor.	**0**	0%
2		**2**	14%
3		**7**	50%
4		**4**	29%
5 -	Very good.	**1**	7%

Comments and suggestions

Would have been nice with more powerful computers for the long compilations.

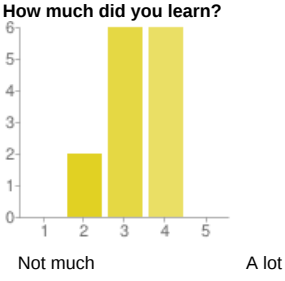
How well was the course organized (program, registration, schedule...)?



1 -	Not well	**0**	0%
2		**1**	7%
3		**4**	29%
4		**7**	50%
5 -	Very well	**2**	14%

Comments and suggestions

How much did you learn?

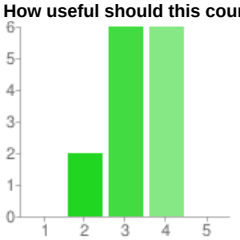


1 -	Not much	**0**	0%
2		**2**	14%
3		**6**	43%
4		**6**	43%
5 -	A lot	**0**	0%

Comments and suggestions

I would have liked more overview of Android/Linux. Every time the lecturer starts to present something, he should first give an overview of where it belongs. Always overview first, then details. Most the practical stuff was releated to setting up the build envioment. I was expecting more about how to program to Linux / Androind, not how to compile

How useful should this course be in your daily job?

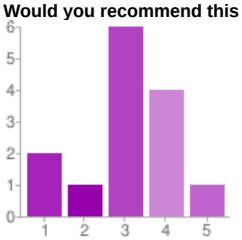


1 -	Not useful	**0**	0%
2		**2**	14%
3		**6**	43%
4		**6**	43%
5 -	Very useful.	**0**	0%

Comments and suggestions

I hope I will work with this stuff I'm doing architecure, and the cource did not really talk about architecure..

Would you recommend this course to others?



1 -	No	**2**	14%
2		**1**	7%
3		**6**	43%
4		**4**	29%
5 -	Yes, definitely	**1**	7%

Comments and suggestions

Do more clear overview over existing android blocks, regarding the src architecture. Missed kind of a table of what kind of makefiles exist, configuration files and what they are responcible for. Took long time to figure out the dependencies. I believe that build system topic can be found on the internet, and not is not really what you want in a cource.

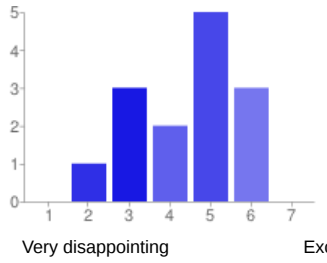
What part(s) of the course did you like most?

Native Android part. Lessons about how things are connected, the features that are placed in each layer of the architecture. Some parts of the slides was really good.

What part(s) of the course did you like least?

Build system first day. The presentations (slides) were very poor. They focused on details before providing overview. The labs, not knowing what we were trying to do, spending all the time on build issues. The practical part, did not really make sense. We used the first 1,5 day to setup a build, which in fact it possible to do from a script. Afterwards we used all the time on getting in contact with an USB device. This is in fact a Linux task and there was no real Android part. When we stated to ask into how the different parts of android, e.g RIL worked, we where not able to get real answers

Overall rating

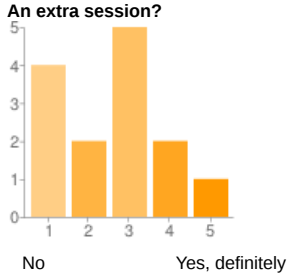


1 -	Very disappointing	**0**	0%
2		**1**	7%
3		**3**	21%
4		**2**	14%
5		**5**	36%
6		**3**	21%
7 -	Excellent	**0**	0%

Comments and suggestions

Create a script which can do the intitilal download of all needed materials from GIT, and do the initial build. This way we can save 1,5 day of the practical stuff

An extra session?

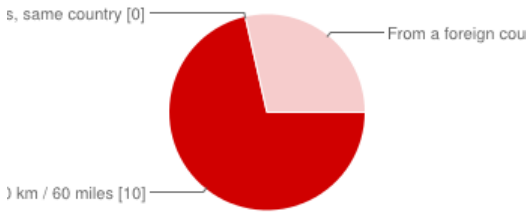


1 -	No	**4**	29%
2		**2**	14%
3		**5**	36%
4		**2**	14%
5 -	Yes, definitely	**1**	7%

Comments

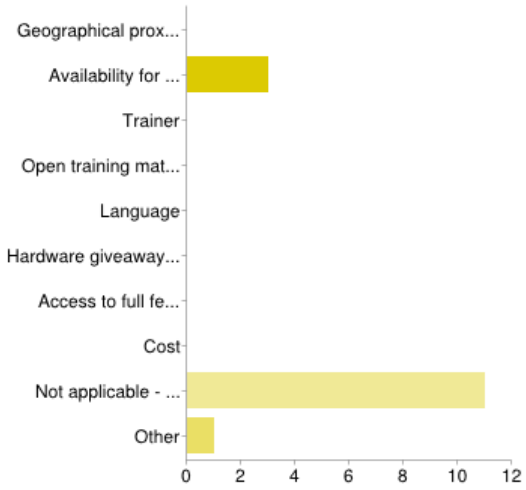
no Depend on which of Android I have to make some development . More introduction seen from architectural point of view would be great. Especially within Audio HAL layers.. Dont see a need right now. No - no Yes more of everything. But I guess I will learn more if the topics was work related How to make a device driver - which interface need to be fulfilled. NO interest Not at the moment. At current time I will not need extra sessions but if I should go deeper it should be in topics like lower layer(ex. HAL layer) but also in the framework, ex binders/communications. Na

How far do you come from?



From less than 100 km / 60 miles	**10**	71%
From more than 100 km / 60 miles, same country	**0**	0%
From a foreign country	**4**	29%

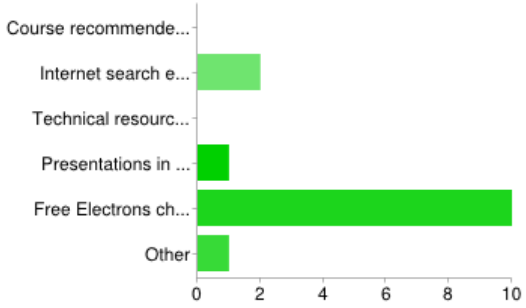
What prompted you to choose Free Electrons?



Geographical proximity (public sessions only)	**0**	0%
Availability for on-site sessions	**3**	21%
Trainer	**0**	0%
Open training materials that can be checked in advance	**0**	0%
Language	**0**	0%
Hardware giveaway (public sessions only)	**0**	0%
Access to full feedback from participants to previous sessions	**0**	0%
Cost	**0**	0%
Not applicable - My management made the decision	**11**	79%
Other	**1**	7%

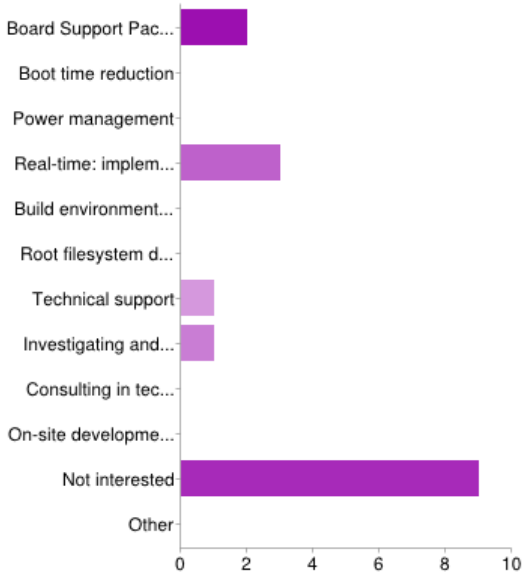
People may select more than one checkbox, so percentages may add up to more than 100%.

How did you first learn about Free Electrons?



Course recommended by previous participants	**0**	0%
Internet search engines	**2**	14%
Technical resources on the Free Electrons website	**0**	0%
Presentations in conferences	**1**	7%
Free Electrons chosen by my management	**10**	71%
Other	**1**	7%

Interested in other types of embedded Linux / Android engineering services?

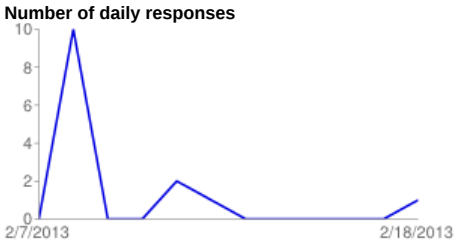


Board Support Package development: make Linux / Android support your new hardware	**2**	1
Boot time reduction	**0**	
Power management	**0**	
Real-time: implementation and bug fixing	**3**	2
Build environment deployment and support	**0**	
Root filesystem design and development	**0**	
Technical support	**1**	
Investigating and fixing bugs	**1**	
Consulting in technology selection and methodology	**0**	
On-site development, support and consulting services	**0**	
Not interested	**9**	6
Other	**0**	

People may select more than one checkbox, so percentages may add up to more than 100%.

Comments and expectations

No need in near future.


Number of daily responses
10
8
6
4
2
0
2/7/2013
2/18/2013

Notes

We thank our customer for their valuable feedback about our Android training course.

Such feedback will help us to improve future sessions. Here are the improvements that we plan to implement in the next months:

- Add more overview and summary slides. Add more introductory slides at the beginning of chapters, to recall the context.
- Give a clearer overview of existing android blocks, regarding the source architecture. Someone missed a kind of a table of what kind of makefiles exist, configuration files and what they are responsible for. It took this person a long time to figure out the dependencies.
- Add some clearer overview about how the different parts relate to each other
- Add more diagrams, avoiding too many slides with only textual information. More diagrams and summary slides will make concepts easier to understand and remember.
- Make sure that all important information shared by the instructor is also written down in the slides.
- Add more context and detail in the practical lab instructions. However, not giving too many details in instructions is an important aspect of the learning process. Our lab instructions explain **what do to**, **but not necessarily how to** reach the expected results. We do not want people to do things without understanding them. When details are already given in the lectures, we do not necessarily recall them in lab instructions, to force participants to get back to the lectures if they haven't remembered or understood these details yet.
- In practical labs, make sure participants do not need to read ahead to understand the task at hand.