EU Technical Assistance Complementary Support Project (EU-TACS) - Bhutan

Final Report :

Core Competency Training on an Agricultural Content Communications Application for Use on Mobile Phones (CCT-9)

Service Contract N° ACA/2019/404-700

International Cooperation and Development

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1. LIST OF PARTICIPANTS

Table 1: List of participants

Sr. No	Name
1.	Tanin Norbu
2.	Chimi Rinzin
3.	Karma Jamtsho
4.	Sangay Jamtsho
5.	Thseten
6.	Kezang Wangmo
7.	Tashi Yangzom
8.	Tshering Doma
9.	Kawaka maya Pulami
10.	Pelden Wangmo

Photo 1: Participants to CCT9 Training

2. COURSE OVERVIEW

The training program was designed with a view to enhance their knowledge in Mobile App. technology and content creation for mobile app. Training program was started by filling personal information form wherein emphasis was on their area of interest which was compiled and followed during execution of training program. Training was conducted with lots of practical input for better understanding of subject matter and practical assignments related to content creation and content management. For the first 4 days entire group was together but from the 5th day group was divided into two i.e. Content Management (technical) & Content Development (multimedia). During the training program they added draft content for four crops in the App. as a part of assignment. During the course they were explained how to collect necessary information for managing the App. at their end for content update, user management.

3. KEY TAKE AWAY FROM THE TRAINING

– **Course Introduction by Mr. Uday Mehta – Managing Director (Sunrise Group)**

The session formally started with brief introduction by Managing Director of Sunrise Training Institute followed by an online pre-test on Basic of Mobile App. technology, Content creation and content management to check level of knowledge in the same.

A Matrix was generated by the application as shown below (Figure 1). This enabled the faculty to focus on questions which most of the participants were not clear about and briefly touch upon questions which most of them understood.

Brief history on the general principles and concepts of Mobile App technology, content creation and content management along with user management part was briefed.

Figure 1: Application matrix

4. DAILY SCHEDULE ACTIVITIES

Table 2: Daily schedule

Day: 06/01/2020	
Day – 1	
Faculty: Mr. Uday Mehta	
Topics Covered:	• **Introduction of Course, Resource Persons, Teaching Methodology. Classroom Norms, Daily Schedule and filling out of the Personal Information Form. Each Participant was asked to introduce him/herself and mention their areas of Interest.** • **Pre- Test and evaluation of pre-test** • **Mobile Computing and Android Development Environment** • **Factors in Developing Mobile Applications**

Day - 2	
Faculty: Technology Experts	
Topics Covered:	• **VUIs and Mobile Apps** • **Architecture of the Mobile App** • **Deployment of App in Google Play Store** • **Practice – App Deployment Process**

Day - 3	
Faculty: Technology Experts	
Topics Covered:	• **Basics of XML** • **Converting content in XML** • **Assignment – Development of basic XML document**

Day - 4	
Faculty: Multi Media experts and Technology experts	
Topics Covered:	• **Handling and managing camera** • **Camera setting for photo shoot and video recording** • **Working with background during in-house recording** • **Managing audio during recording** • **Practice and assignment – Photo shoot & Video Recording**

Day - 5		
Faculty: Multi Media experts and Technology experts		
Topics Covered:	Content Management	**Content Development**
	• Integrating Image • Multimedia content integration • Assignment - Graphic Image integration • Assignment - - Multimedia Content integration: Audio and Video Clips	• **Multimedia content processing** • **Processing camera recorded video** • **Assignment - Video processing project**

Day - 6		
Faculty: Multi Media experts and Technology experts		
Topics Covered:	Content Management	**Content Development**
	• Updating existing content including images, audio and Video • Assignment – Multilayer content update including images, Audio & Video	• **Image processing** • **Working with Voice Audio & Background music on video project** • **Assignment – Integration of Audio and background music in video project**

Day - 7		
Faculty: Multi Media experts and Technology experts		
Topics Covered:	Content Management	**Content Development**
	• Integrating new content • Content Upload • Assignment – Integrating new content in Multilayer large content • Assignment - Content Upload	• **Using effect and transition on video project** • **Assignment – Applying effect and transition on video**

Day - 8	
Faculty: Multi Media experts and Technology experts	

Topics Covered:	Content Management	Content Development
	• App. intent and services • Communication with the database • Live demonstration of web service communication with app, database and content • Assignment – Adding 4 more crop information in App. content	**Assignment – Working on the video clips brought from Bhutan**

Day - 9		
Faculty: Multi Media experts and Technology experts		
Topics Covered:	Content Management	Content Development
	• Registration and Activation process • Content integration with App • Assignment on Registration and Activation • Assignment – Adding 4 more crop information in App. content	• **Video Clip processing for the Mobile App.** • **Assignment – Working on the video clips brought from Bhutan**

Day - 10		
Faculty: Multi Media experts and Technology experts		
Topics Covered:	Content Management	Content Development
	• Managing user registration and activation • Deactivating user • Defining App. activation period • Assignment – Adding 4 more crop information in App. content	• **Video Clip processing for the Mobile App.** • **Assignment – Working on the video clips brought from Bhutan**

Day - 11		
Faculty: Multi Media experts and Technology experts		
Topics Covered:	Content Management	Content Development
	• Setting up notification • Monitoring feedback • Managing user query in ISM and sending response for remote assistance • Generating reports • Concluding assignment – 4 crops content integration	• **Concluding assignment – Video clips**

Day - 12	
Faculty: Mr. Uday Mehta, Multi Media experts and Technology experts	
Topics Covered:	• **Final Feedback** • **Certification Process**

5. COURSE STRUCTURE AND TEACHING METHODOLOGY

Over all contents of the course structure was observed equally important. The course was designed and conducted to meet the expectations of the concerned organization and the individual at large.

The teaching was one to one and very effective. Course materials like Study notes, Study bag, Pen, Notebooks were provided by the Institute.

The course was conducted with lots of hands on exercises, which was found very useful to understand the theoretical aspect of the course.

There was a theoretical test with multiple choices and practical assignment was given to assess our understanding of the course.

On arrival there was pre-test taken to assess our knowledge of Mobile App. Technology.

6. FEEDBACK FROM THE PARTICIPANTS

Table 3: Training Feedback

Feedback Analysis						
No. of Participants - 10						
Sr. No.	Questions	Excellent	Very Good	Good	Average	Poor
1	What is your opinion about the training?	4	6			
2	How would you rate the usefulness of the training given to you with respect to your work environment?	6	4			
3	Were the concept explained clearly in the classroom?	7	3			
4	Were you able to understand the concepts explained in the classroom?	4	5	1		
5	How did you find the teaching methodology?	2	8			
6	How would you rate the subject knowledge of the faculties regarding the subject taught?	8	2			
7	Were the faculty members able to respond to your queries about subject in a meaningful way?	8	2			
8	Were your doubts answered and clarified during the course?	7	3			
9	How would you rate quality of study material provided to you?	3	6	1		
10	How do you rate facilities & learning environment?	1	8	1		

Figure 2: Graphic representation of feedback
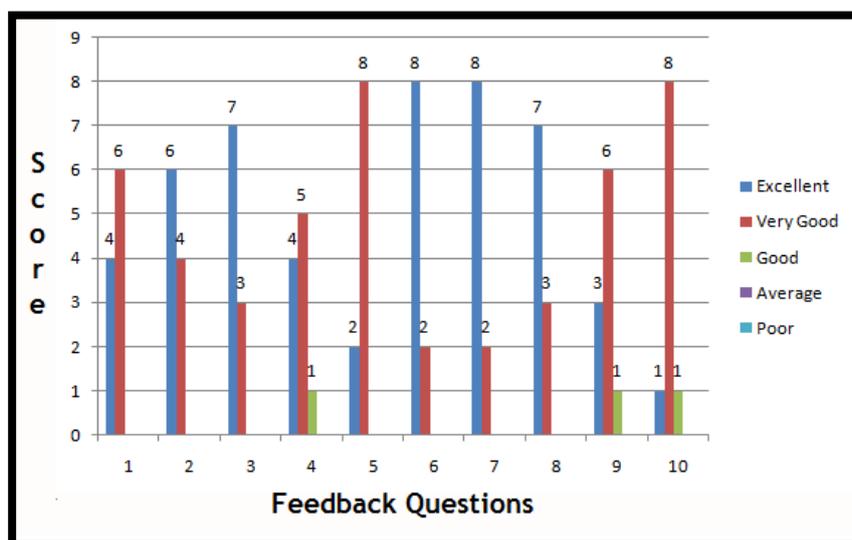
7. **FINDINGS**

The participants were very enthusiastic for learning new technology and Multi Media concept. Attendance has been observed 100% during the course. They worked very hard during the training program and try to learn and practice. They not only learned the concept but also successfully added detailing of additional four crops information in the App. as a part of assignment. They work very hard and sometimes late night to finish the assignment which shows they not only learned the technology but also were motivated to adopt it for implementation in the country.

8. **CONCLUSION**

As per our observations, such practical oriented training interventions are found very useful to enhance the technical competence of the RGoB Executives as we have been associated with RGoB for last 2 decades. It is extremely important for the courses related to New Technology are to not only deliver the technical skill but also motivate the participant to adopt the new technology.

9. **RECOMMENDATIONS AND FOLLOW UP ACTION**

As this training was designed specifically to Maintain the App along with content management and content creation of "Crop_Advisory" Mobile App. which can reach to large number of potential stake holders, we are looking forward to their usage of this Mobile App. in coming days and also ensured them for any technical help required in future for smooth running of the App.

As the technology keep on changing in shorter span, we recommend them another round of training after certain period so that they get aware about the new enhancement taking place in market and can decide to integrate the same better outcome.