

# Activity Report 7th Oct. 2015



Kenichi Tezuka Computer Technologist ICT department GWI(Guyana Water Inc.) Ministry of Communities



## Summery



Term : June 29, 2015 - October 15, 2015

TOR (Terms Of Reference)

1) Improvement of SOP (Standard Operating Procedure)

2) Training of ICT skills for ICT department staff

Activity summery

- Jul. 2015 : Check of SOP documents
- Aug. 2015 : Start PHP&Web programing training
- Sep. 2015 : PHP&Web programing training Check of SOP documents



Stage of ICT development in developing countries





Points to be improved ;

 Need some more visualized documents. Now, GWI has already developed SOP scenarios.

Documents may be easier to understand;

who, which section are taking part of the process who is responsible for each activity who should be notified about each action result what documents are made and by who where and when these documents are kept how the process should be audited and by who



Points to be improved (continued);

2) Need check list for each activity.

To avoid operation mistakes and keep audit trails

- 3) More conscious of 'RACI' in process
  - R : Responsible 'doers' of the work
  - A : Accountable
  - C : Consulted

approve the result to be consulted before making decision need to get informed

I : Informed



#### An example;

#### this is 'visualized' procedure definition (scenario) for 'Issue of new equipment to department / division'

Gwi	ISSUE OF NEW EQUIPMENT TO	O DEPARTMENT / DIVISION					
$\bigtriangledown$	PROCESS No.	1000000	CESS OWNER: _of_ICT	VERSION NO. 1.0			
PURPOSE To define policies and procedures for the issua Peripherals) to employees and departments.		Head of Department	Approval paper		Department / User / Affected U	Jsers Assets Management Team	
					appro	val paper	
SCOPE			Location of equipment				
This applies to ICT related equipment used withi				location of equipment	r	f some words can be new for a reader like new	
RESPONSIBILITY FOR IMPLEMENTING PRO			Off sitepreparation for divisional trip			where we can refer to.	
Head of ICT, Data and Communications Manage			schedulingoftrip		who makes it (who's in charge) which route it follows and who checks where it is saved finally		
PROCEDURE				prepare Gate Pass			
ហ	nce an ICT equipment has to be is inth that, the location of the equipme otified of the change. The Asset Ma			Record in 'Assets Ou	ίδοιυδ ροοκ.		
	he equipment is then labeled by the of the equipment.		On site	information of issuance Mame, nu Email	mber ····	. • •	
	n cases where the equipment has to e_Admin_department. After_the_divisj			Telephone   Face to face			

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**Training plan** 



## PHP&Web programing training

16 sessions including PHP basics, web app's environment, DB tool (MySQL), OOP basics

7 staff in ICT department

No.	Date	Title	Contents		
1	8/3 → 8/7	XAMPP install & configuration	XAMPP : PHP development environment PHP configuration (php.ini)		
2	i consider the sprint	PHP Basic (1)	PHP syntax, variables, Data types, String, Constants		
3	0/10 > 0/14	PHP Basic (2)	PHP Operators, If else, switch, while loop, for loo		
4	8/10 → 8/14	PHP Basic (3)	PHP functions, Arrays, Superglobals		
5	8/17 → 8/21	PHP Basic (4)	PHP date & time functions, Coding standard / Naming convention (by PEAR) Variable scope, include & require statement		
6		HTML overview,	HTML tag & syntax		
7	8/24 → 8/28	HTML form, Form security Validation check examples	Handling HTML form data How to guard from XSS(cross site scripting) attacks? How to check valid email address, URL address?		
8		File handling, PHP session	How to handle external files? What's session?		
9	8/31 → 9/4	PHP filter, Error handling, Exception	Filter functions Error handling & Exception handling		
10	8	MySQL database	Outline of MySQL database, DB configuration(my.ini		
11	9/7 → 9/11	SQL injection	What's SQL injection? How to guard from SQL injection attack?		
12		Apache	What's Apache? Apache configuration(httpd.conf)		
13	5	OOP in PHP	What's OOP(Object Oriented Programing)? Outline of OOP		
14	9/14 → 9/18	MVC pattern	What's MVC pattern? Model – View – Controller, simple example Web programming trial		
15	9/21 → 9/25	SMARTY	What's SMARTY? SMARTY as View tool in MVC. How to separate HTML from PHP codes?		
16	9/28 →	Practice	Develop a simple PHP web application.		



## PHP&Web programing training



Training text index page



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D		INDEX			Ge
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0	3	PHP basic(2)	2Н	20	v
	4	PHP basic(3)	2Н	32	
	5	PHP basic(4)	2Н	38	
	6	HTML Overview (HTML5, XHTML, Box layout design)	2Н	52	
	7	HTML form & how to guard XSS attacks	4H	58	
	8	File handling	4H	74	
	9	Session & Error handling	2Н	90	
	10	MySQL basics & SQL statements	2H	104	
	11	How to guard from SQL injection attacks	2/4H	128	
	12	OOP(Object Oriented Programing) basics	2H	141	
	13	MVC pattern in PHP web applications	2H	151	
2	14	Database Access Class	2H	168	$\left( \right)$
0	15	Final Exercise	4H	175	0
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## Recommendation



#### TOR(Terms Of Reference)

will make it easy for JICA volunteer to start tasks at assigned country

will give us (CP and JICA volunteer) topics to discuss what we can/should do at assigned ministry/department during our term

will make JICA volunteer enable to prepare for his/her activities if he/she could get before departure from Japan

#### Terms of reference for JICA ICT Senior Volunteer

- 1. Empower teachers and lecturers on instructional technologies
- 2. Help schools setup learning management systems
- 3. Advise schools on internet management for schools
- 4. Help ICT teachers develop school websites
- 5. Assist the regions to setup Teacher Resources Development Centres (TRDC) / ICT centres
- 6. Advise teachers on issues of troubleshooting, repairs and maintenance
- 7. Help in the development of ICT in Education strategy documents and action plans for Swaziland
- 8. Advise on seeking support from international donors (especially Japan / JICA), government and local communities on financing ICT education
- 9. Help in taking stock of old computers in schools [especially those that were donated by the Computer Education Trust (CET)] that are non functional and check whether these need to be disposed of or can still be used
- 10.Assist in the syllabus development process of the ICT Panel for both primary and junior secondary levels
- 11.Assist in the set up of an ICT Panel Centre
- 12.Participate and make presentations at ICT Teachers' workshops
- 13.Assist in the networking of 40 schools' (10 in each region) computer labs
- 14. Provide technical assistance to some of the Ministry's outstations e.g. REO offices, NCC, tertiary institutions, etc
- 15. Undertake further duties as may be required in consultation with the Senior Inspector ICT



## My colleagues















Special thanks for kind and friendly period in Guyana you gave to me













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# Thank you for all colleagues and kind memories in Guyana

## Kenichi Tezuka JICA Senior Volunteer ICT