Form B03 Scheduled Maintenance Work Order



Format Ref: - QMS/TSD-022 Rev.01

Work Order No.	PWO365723			edule Month	June 2018				
Work Order Date	C	01/06/2018	Cor	npleted Date	eelnly				
Clinic Name	ŀ	Klinik Kesihatan Batu Pahat	Clir	ic Code	JHR003				
BE No.	J	JHR000008	Dis	tict	BATU PAHAT				
BE Category	A	Analyzers, Laboratory, Hematology,	wo	Assigned to	Felm				
Ownership		✓ Existing Equipment		Purchase	New				
BE Condition		✓ Active		BER Proposed					
Work Order Type		✓ Preventive Maintenance (PM)		Third Party Calibration (TPC)					
Work Graef Type		Routine Inspection (RI)		Statutory Certificat	Statutory Certification (SC)				
Reschedule Date									
BE Third Party Calibration / Statutory Certification Details									
Company Name		hax /	Cal	/ Cert Date	wa/				
Contact Number			Cal	/ Cert Expiry Date	-				
Correc	ctive Mainter	nance / Breakdown			Manufacturer : Modal :	18001			
BE Stid	cker Availab rks:	ility: Yes / NA			Serial No : 1 S	1.00			
Remar	rks:					1.00			
	rks:	cution Details		Date	Serial No : 1	55%			
Remar	rks:			Date		1.00			
Remar	rks:	cution Details		Date +(1/18	Serial No : 1 S	End Time			
Remar	rks:	cution Details			Serial No : 1 S	End Time			
Remar	rks:	cution Details			Serial No : 1 S	End Time			
Remar	nance Exec	cution Details			Serial No : 1 S	End Time			
Schedule Mainten	nance Exec	cution Details			Serial No : 1 S	End Time			
Schedule Mainten	nance Execution in the second	cution Details QMS Engineer / Technician Name	Nam	omer Signature e gnation AFIZ Junctekn	Start Time	End Time / Lip AZIZ 2 (KUP)			

QUANTUM MEDITO SOLUTIONS
RAZILE STATE MAISKAIL
BIOMEDICAL ENGINEER

First Verification

QMS Circle Incharge

Final Verification QMS State Incharge



PART 1 ASSET DETAILS

KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist Analyzers, Laboratory, Hematology, Cell Counting, Automed (Medium)

BE CODE : ME-009

CHECKLIST NO:CL-015-000 REV.000

VO	RK ORDER NO	· Pwo	36572	3					BE N	10	> 4	11h	.00	ספכ	80	
1AN	NUFACTURER	· 505	rex						MOD	EL	>	4-1	800	71		
RE	QUENCY	► 6 MONT	HLY ()	12 MONT	HLY ()		PPM	HOURS	▶ 2.	00				
PAI	RT 2 SPECIAL PRI	ECAUTION														
the	ere is evidence of bo	dy fluid contar	mination, s	ubmit the	device f	or cleanii	ng an	d decontamination	on before inspecting	it.						
Vea	ar appropriate Persor	nnel Protection	n Equipme	ent (PPE)	during w	ork.										
Vea	ar grounded electros	tatic wristband	l when har	ndling PC	B or elec	tronic co	mpon	ents.								
lefe	er to the safety proce	dure for additi	onal preca	autions an	ıd guidan	ce as pe	r man	ufacturer guideli	nes.							
lak	e sure the test equip	ment used are	e duly calib	orated.												
PAI	RT 3 TEST APPAR	ATUS														
ick	(√) where appropria	te	1													_
Ν	IO ASSE	T NO			DESC	RIPTION	1		SERIAL NO CALIBRATION DU			UE OI	١			
	TEEN	o o o	ELECTR	ICAL SAF	ETY AN	ALYZER			325406 9/4/18			8				
											+					7
-											_					4
															1	
- Men	RT 4 QUALITATIVE						1							-		
ick	(√) where appropria	te		PASS	FAIL	NA					F	PASS	FAI	L	NA	
1	Chassis - verify phy	sical integrity,		(/)	()	() 1-	Probes- Verify	physical interigity		(()	() (()
	cleanliness and cor Mount/ Fasteners -	ndition				(1.50	system- verify prope	r operation		/)	,) (20)
	Power Cord - verify	- a to 150 %				(**	npressor/pump- veri		6.5	/)) (
	integrity							integrity and p	roper operation	iy pilysical)
4	Strain Relief - verify both ends of line co		grity at	(/)		() 14	Initialization P	rocess- Verify		(/)	() (()
5	Fittings/ Connectors fittings/connectors	s - check all		()	()	() 15	Printer - Verify	physical operation.		()	() (()
6	Controls/Switches -	verify proper	operation	()	()	() 16	S User Setting -	Verify Operation		(/)	() (()
of controls Indicators/Displays- verify proper operation			(/)	()	() 17	User calibration	on - Verify Operation		(1)	() (()	
8	Electrodes and Train	nducer -verify	physical	(/)	()	() 18	Self Diagnosti	c - Verify Operation		(1	() (()
9	integrity Hydraulics and Pne	umatics Syste	m-verify	(/)	()	() 19	Plate moveme	ent calibration - Verif	y Operatio	n (1	() (()
	physical integrity Sensors- verify phis		9	1		(*					1
				: A			1									
	RT 5 PREVENTIVE		ICE TASK	S												
ick	(√) where appropria	te			NOT								NO ⁻	т		
				DONE	DONE	NA						OONE	DON		NA	
1	Clean exterior and i	nterior of the		(/)	() () 6	Clean measur	ing area		(1	() ()
2	equipment Inspect/clean interio	or of unit		(/)	() () 7	Calibrate syste	em parameter		ĺ	1	() ()
	100 200 to 100 100 100 100 100 100 100 100 100 10							Constitution of the Consti				1				
	Clean hydraulics an		system) () 8	Perform Post	outile		(-)	7) (1
4 Tubings - clean/ replace *** () () () Notes:																
5	Clean sampling me	chanism		()	() ()	** If you	I Parts, NA is define have ticked 'NOT D se Whichever Applic	ONE', the						



KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist

Analyzers, Laboratory, Hematology, Cell Counting, Automated, Medium

CHECKLIST NO:CL-015-000 REV.000

BE CODE : ME-009 WORK ORDER NO ▶ PART 6 QUANTITATIVE TASKS Tick (√) where appropriate Measured Units / Set Description Limit/Tolerance PASS FAIL Values UOM Values PART 7 ELECTRICAL SAFETY TEST ELECTRICAL SAFETY TEST, (attach report) Tick (\) where appropriate Standard use : Result: IEC 60601 IEC 61010 IEC 62353 PASS FAIL NA PART 8 NOTES NOT FUNCTIONING CORRECTIVE MAINTENANCE REQUIRED FUNCTIONING NEXT PPM DATE - Dc 19 WORK ORDER NO ▶ PPM has been performed in accordance to the checklist and the equipment is functioning to the intended purpose. COMPLETED BY:

Test Setup

DUT Information

Operator ID:

Equipment Number: JHR000008

Calibration Tech:

DINA

Serial Number:

15556

Calibration Date:

9/10/2017

Manufacturer:

SYSMEX

Firmware Version:

2.08.01

Model:

XT-1800i

Serial Number:

3226906

Location:

KK BP

Date & Time : JOB Name:

07/04/2017 & 15:01

Other:

Template Information

Template Name:

JHR000008

Standard:

IEC60601-1-2nd Ed

Pause after Power ON: NO

Pause before Power O NO Power OFF delay:

0

Power ON delay:

2

Test Mode:

Test Speed:

NORMAL

AUTO NO

Halt on Test Failure: YES

Multi PE Test:

WORST/LAST

Include Time:

YES

Multi Resstore: Reverse Polarity:

YES

Insulation Resistance \ 500V Multi Enclosure Test: NO

Classification:

Ī

PLC Configuration-Applied part setup

AP Name AP Type

AP Num

ESA615 Test Results

Test Name	Value	High Limits Low	Limits Status
Dust stive Fouth Desistance	0.100.01	0.0	_
Protective Earth Resistance	0.100 Ohr	r 0.2 -	Р
Insulation Resistance		*	Р
Mains to Protective Earth	999 MOhi	1	Р
Mains to Non-Earth Accessible Conductive Par	r 999 MOhi	1	Р
Mains Voltage			Р
Live to Neutral	236.2 V		Р
Neutral to Earth	2.3 V	-: :-	Р
Live to Earth	235.0 V		Р
Equipment Current	0.0 A	- :-	Р
Earth Leakage Current			Р
Normal Condition	14.3 uA-O	500 -	Р
Open Neutral	20.0 uA-O	1000 -	Р
Open Neutral- Reversed Mains	21.1 uA-O	1000 -	Р
Normal Condition- Reversed Mains	14.5 uA-O	1 500 -	Р
Enclosure Leakage Current			Р



Normal Condition	0.1 uA-OPI	100 -	Р
Open Earth	14.5 uA-OI	500 -	Р
Open Neutral	0.2 uA-OPI	500 -	Р
Open Neutral- Reversed Mains	0.1 uA-OPI	500 -	Р
Normal Condition- Reversed Mains	0.6 uA-OPI	100 -	Р
Open Earth- Reversed Mains	0.8 uA-OPI	500 -	Р

Signature

MOHO NAME ERROR E CENTRE BIOMETER BE CONTROL BY THE CONTROL BY THE