



P&S Automation Ship Asset Maintenance Schedule - Simplified Example

Customer:
Vessel:

No.	System	Equipment	Maintenance Procedure	Maintenance Period	Service History					Comments
					1	2	3	4	5	
1	Battery Backup systems	Backup batteries	Battery Internal Resistance Testing	2½ Yearly						See Battery Asset list for further details
			Replacement of Batteries in line or critical condition	5 Yearly						
2	UPS Systems	UPS	Battery Internal Resistance Testing	Yearly						See Battery Asset list for further details
			Equipment Inspection/Cleaning	2½ Yearly						
3	Machinery	All PLCs	Replacement of Batteries in line or critical condition	5 Yearly						See Battery Asset list for further details
			PLC Battery date inspection	Yearly						
			Replacement of Batteries based on manufacturer guidelines	2½ Yearly						
			Backup of software taken on-site	5 Yearly						
4	Computers	SMS Server	Clean/Replace Fans and Filters	2½ Yearly						
			Clone and Renew mechanical hard disks	5 Yearly						
			Backup hard disk data	5 Yearly						
			Replace Power Supply	5 Yearly						
			Equipment Inspection/Cleaning	2½ Yearly						
		Cabin Computers	Clean/Replace Fans and Filters	2½ Yearly						
			Clone and Renew mechanical hard disks	5 Yearly						
			Backup hard disk data	5 Yearly						
			Replace Power Supply	5 Yearly						

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5	IAS	Workstations	Tightness check	Yearly								
			Equipment Inspection/cleaning	2½ Yearly								
			Clean/Replace Fans and Filters	2½ Yearly								
			Clone and Renew mechanical hard disks	5 Yearly								
		Backup hard disk data	5 Yearly									
		Redundancy Status Check	Yearly									
		Tightness check	Yearly									
		Cable Integrity Check	Yearly									
		Equipment Inspection/Cleaning	2½ Yearly									
		Replace Power Supplies	5 Yearly									
		Clean/Replace Fans and Filters	2½ Yearly									
		Clone and Renew mechanical hard disks	5 Yearly									
		Backup hard disk data	5 Yearly									
		Replace Power Supply	5 Yearly									
IO Cabinets	Tightness check	Yearly										
UWS Channels	Equipment Inspection/cleaning	2½ Yearly										
	Replace all relays with new tested units	5 Yearly										
New IAS Channels	Recalibrate and fully test sensors	Yearly								See Channel Database		
	Recalibrate and fully test sensors	5 Yearly								See Channel Database		

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					1	2	3	4	5	
6	Boiler Controls	Local Panel	Check operation of air cooling unit	Yearly						
			Tightness check	Yearly						
		Sensors	Replace all relays and timers with new tested units	5 Yearly						
			Test Sensors	Yearly						
			Visual Inspection	2½ Yearly						
			Recalibrate and fully test sensors	5 Yearly						
Actuators	Test Actuators	Yearly								
	Visual Inspection	2½ Yearly								
7	Cargo Plant	Control and barrier Panels	Overhaul and fully test actuators	5 Yearly						
			Tightness check	Yearly						
		Sensors	Visual Inspection	2½ Yearly						
			Recalibrate and fully test sensors	5 Yearly						
			IR Survey	Yearly						
			Inspection and Tightness check	2½ Yearly						
8	Switchgear	HV Switchboards	Injection Testing/Calibration	5 Yearly						
			Pressure Testing Vacuum Circuit Breakers	5 Yearly						
		LV Switchboards	IR Survey	Yearly						
			Inspection and Tightness check	2½ Yearly						
			Injection Testing/Calibration	5 Yearly						
			IR Survey	Yearly						
HV Transformers	Inspection and Tightness check	2½ Yearly								
	Testing of protection devices	5 Yearly								