Condu	et fact :	and safe	transportat	ion					
1.1 Sail	ot last a	allu sale	transportat	1011					
,	Plan ar	nd propara							
1.1.1		Gather vo	yage information	2					
	1.1.1.1		Check sail ins		r / obortoror)				
			Gather previo		r / charterer)				
	-		Identify sail di		commondations				
-			Lookup rough						-
		1.1.1.1.5		aphic informatio				_	-
		1.1.1.1.6		ologic information					
		1.1.1.1.7		t / tidal informat					_
			Gather ship ch		1011				
			Identify dange						-
			Check local ru					-	
			Identify ports						
			Identify naviga		on sources				
			Purchase miss						
	1.1.1.2		it (voyage plan)						
		1.1.1.2.1	Propose route	sections (and s	speed profile)				
				Incorporate rou					
			1.1.1.2.1.2	Incorporate cha	arter data				
			1.1.1.2.1.3	Incorporate me	teorological data				
				1.1.1.2.1.3.1	Check weather for	orecast			
				1.1.1.2.1.3.2	Check wave fore	cast			
				Incorporate shi	p characteristics				
					man and cargo co	nstraints			
				incorporate hyd	drographical criteri	ia			
				1.1.1.2.1.6.1	Check water dep	oths			
				1.1.1.2.1.6.2	Check current ar				
		1.1.1.2.2	Select optimal	route by satisfy	ring criteria				
			1.1.1.2.2.1	Calculate minin	num cost route				
				Calculate minin	num time route				
			1.1.1.2,2.3	Select route an	d define sections				
				1.1.1.2.2.3.1	Define waypoints	3			
				1.1.1.2.2.3.2	Define ETA / spe	eed profile			
		1.1.1.2.3	Log route plan						
					s & courses in na	v charts			
					area's in charts				
					able & information				
					navigation equipm	ent			
		1.1.1.2.4		lan by master					
	1.1.1.3		ne navigation						
		1.1.1.3.1							
			Check restricti						
			Determine wat						
			Check local pr						
		1.1.1.3.5		systems breakd					
				Prepare back-u				-	
	1111	Discuss re		Prepare back-u	ip conning				
	1.1.1.4		oute plan with wa						
	_		Conduct pre-s	-					
	1115	1.1.1.4.2							
	1.1.1.5	1.1.1.5.1	essel for sea pas Muster crew	ssage					
	_		Load bunkers	and stores					
	_		Seafastening S		- t				-
	_		Seafastening (IL				
		1.1.1.5.4							
			Check stability				L.		
		1.1.1.5.7	,	up engines and	aux systems				
1.1.2	Conduc	t Voyage	. ropare start-	-p origines and	ada dystollis				
1.1.2		Depart							
		1.1.2.1.1	Organise depa	arture					
				Inform crew					
				Inform Agent					
				1.1.2.1.1.2.1	Inform Pilot				
				1.1.2.1.1.2.2					
					Inform linesmen				
					Inform VTMS				
				Inform owner /					
				Inform authoriti					
		1.1.2.1.2) and aux syste					
			Check manoe						
		1.1.2.1.4		eparture checkl	ist				
				Check bridge e					
					Course recorder				
					Telegraph record	ler			
					Voyage Data Red				
					vigational & weath				
		1.1.2.1.5	Prepare pilot (dis-)embarkatio	n arrangements	moodayes			
		1.1.2.1.6			arrangomenta				
		_	Call "fore and						
		1.1.2.1.8	Unmoor ship						

			Prepare ancho							
		1.1.2.1.10	Manoeuvre sh							
					ller and (optional)	thruster(s)				
				Use tug boat as						
				1.1.2.1.10.2.1				-		
		110111		1.1.2.1.10.2.2	Let go			-		
		1.1.2.1.11	1.1.2.1.11.1	Slow down						
			1.1.2.1.11.2							
				Monitor pilot lau	inch alongside					
			1.1.2.1.11.4		anon diorigolac					
		1.1.2.1.12	Commence se							
					-determined cours	se & speed				
			1.1.2.1.12.2	Clear mooring a	arrangement					
					embarkation arra	ingements				
				Seafasten anch						
			1.1.2.1.12.5	Close all openir	ngs					
	1.1.2.2	Navigate								
		1,1.2.2.1	Monitor enviro		and followers					
			1.1.2.2.1.1	Monitor traffic a		control / reporting	ovotomo	-		
			1.1.2.2.1.3	Monitor local tra		control / reporting	Systems			
				Monitor ARPA	amo status					
				Monitor visual (look out)					
					vith other vessels					
		1.1.2.2.2		water and wind						
				Read message	S					
			1.1.2.2.2.2	Check radar						
				Check forecast						
		1.1.2.2.3		nt route (and tin						
				Monitor continu						
					Monitor ECDIS	. to aba'				
			ía,		Use parallel inde					
					Monitor GPS cro		ninė.			
				1.1.2.2.3.1.4 Fix position	Monitor GPS dis	tance to next wayp	OINT			
			1.1.2.2.3.2	1.1.2.2.3.2.1	Check time inten	val				
					Take visual bear			1		
				1.1.2.2.3.2.3		nce (bearing option	nal)			
				1.1.2.2.3.2.4	Read GPS syste	m				
				1.1.2.2.3.2.5	Check distance l					
				1.1.2.2.3.2.6	Check depth sou					
			1.1.2.2.3.3	Plot position						
				1.1.2.2.3.3.1	Enter position in					
					Verify line of pos					
				1.1.2.2.3.3.3		th Dead Reckoning	g	1.1.2.2.3.1.7		
					Log position					Set radar to
					Check validity of			-		Set range ri
-					1.1.2.2.3.1.8.1				1.1.2.2.3.1.7	Plot echo
			1.1.2.2.3.4			oute section (track)	1			
						from planned posi				
						Determine Cross				
						Determine angula				
						Determine effects				
						Determine effects				
				1.1.2.2.3.4.6	Assess deviation	from planned time				
			1.1.2.2.3.5	Decide to adjus	at position by cont	rol of heading and				
					Check restriction	s of nav area				
		1.1.2.2.4		route and time	plan					
			1.1.2.2.4.1	Avoid collision	1-1					
				1.1.2.2.4.1.1	Identify threat ve		in hoosing of			
					1.1.2.2.4.1.1.1	Determine change	e in bearing of vessels Take compass bearings			
						1.1.2.2.4.1.1.1.1	Take radar hearings			
						1.1.2.2.4.1.1.1.2	Take radar bearings			
						1.1.2.2.4.1.1.1.2 Determine headin	Take radar bearings g of vessels			
						1.1.2.2.4.1.1.1.2	Take radar bearings g of vessels Communicate			
						1.1.2.2.4.1.1.1.2 Determine headin 1.1.2.2.4.1.1.2.1 1.1.2.2.4.1.1.2.2	Take radar bearings g of vessels Communicate			
					1.1.2.2.4.1.1.2	1.1.2.2.4.1.1.1.2 Determine headin 1.1.2.2.4.1.1.2.1 1.1.2.2.4.1.1.2.2 1.1.2.2.4.1.1.2.3 1.1.2.2.4.1.1.2.4	Take radar bearings g of vessels Communicate Plot on radar Monitor ARPA vector Monitor vessel aspects			
					1.1.2.2.4.1.1.2	1.1.2.2.4.1.1.1.2 Determine headin 1.1.2.2.4.1.1.2.1 1.1.2.2.4.1.1.2.2 1.1.2.2.4.1.1.2.3 1.1.2.2.4.1.1.2.4 Determine speed	Take radar bearings g of vessels Communicate Plot on radar Monitor ARPA vector Monitor vessel aspects of vessels			
					1.1.2.2.4.1.1.2	1.1.2.2.4.1.1.1.2 Determine headin 1.1.2.2.4.1.1.2.1 1.1.2.2.4.1.1.2.2 1.1.2.2.4.1.1.2.3 1.1.2.2.4.1.1.2.4 Determine speed 1.1.2.2.4.1.3.1	Take radar bearings g of vessels Communicate Plot on radar Monitor ARPA vector Monitor vessel aspects of vessels Communicate			
					1.1.2.2.4.1.1.2	1.1.2.2.4.1.1.1.2 Determine headin 1.1.2.2.4.1.1.2.1 1.1.2.2.4.1.1.2.2 1.1.2.2.4.1.1.2.3 1.1.2.2.4.1.1.2.4 Determine speed 1.1.2.2.4.1.3.1 1.1.2.2.4.1.3.2	Take radar bearings g of vessels Communicate Plot on radar Monitor ARPA vector Monitor vessel aspects of vessels Communicate Monitor ARPA vector			
					1.1.2.2.4.1.1.2	1.1.2.2.4.1.1.1.2 Determine headin 1.1.2.2.4.1.1.2.1 1.1.2.2.4.1.1.2.2 1.1.2.2.4.1.1.2.3 1.1.2.2.4.1.1.2.4 Determine speed 1.1.2.2.4.1.1.3.1 1.1.2.2.4.1.1.3.2 1.1.2.2.4.1.1.3.3	Take radar bearings g of vessels Communicate Plot on radar Monitor ARPA vector Monitor vessel aspects of vessels Communicate Monitor ARPA vector			
					1.1.2.2.4.1.1.2	1.1.2.2.4.1.1.2 Determine headin 1.1.2.2.4.1.1.2.1 1.1.2.2.4.1.1.2.2 1.1.2.2.4.1.1.2.3 1.1.2.2.4.1.1.2.4 Determine speed 1.1.2.2.4.1.1.3.1 1.1.2.2.4.1.1.3.2 1.1.2.2.4.1.1.3.3 Determine CPA	Take radar bearings g of vessels Communicate Plot on radar Monitor ARPA vector Monitor vessel aspects of vessels Communicate Monitor ARPA vector Estimate			
					1.1.2.2.4.1.1.3 1.1.2.2.4.1.1.4 1.1.2.2.4.1.1.5	1.1.2.2.4.1.1.2 Determine headin 1.1.2.2.4.1.1.2.1 1.1.2.2.4.1.1.2.2 1.1.2.2.4.1.1.2.3 1.1.2.2.4.1.1.2.4 Determine speed 1.1.2.2.4.1.1.3.1 1.1.2.2.4.1.1.3.2 1.1.2.2.4.1.1.3.3 Determine CPA	Take radar bearings g of vessels Communicate Plot on radar Monitor ARPA vector Monitor vessel aspects of vessels Communicate Monitor ARPA vector Estimate			
					1.1.2.2.4.1.1.3 1.1.2.2.4.1.1.4 1.1.2.2.4.1.1.5	1.1.2.2.4.1.1.2 Determine headin 1.1.2.2.4.1.1.2.1 1.1.2.2.4.1.1.2.2 1.1.2.2.4.1.1.2.3 1.1.2.2.4.1.1.2.4 Determine speed 1.1.2.2.4.1.1.3.1 1.1.2.2.4.1.1.3.2 1.1.2.2.4.1.1.3.3 Determine CPA Determine TCPA Determine intentic	Take radar bearings g of vessels Communicate Plot on radar Monitor ARPA vector Monitor vessel aspects of vessels Communicate Monitor ARPA vector Estimate			
					1.1.2.2.4.1.1.3 1.1.2.2.4.1.1.4 1.1.2.2.4.1.1.5	1.1.2.2.4.1.1.2 Determine headin 1.1.2.2.4.1.1.2.1 1.1.2.2.4.1.1.2.3 1.1.2.2.4.1.1.2.4 Determine speed 1.1.2.2.4.1.1.3.1 1.1.2.2.4.1.1.3.1 1.1.2.2.4.1.1.3.2 Determine CPA Determine TCPA Determine intentic 1.1.2.2.4.1.6.1	Take radar bearings g of vessels Communicate Plot on radar Monitor ARPA vector Monitor vessel aspects of vessels Communicate Monitor ARPA vector Estimate			
					1.1.2.2.4.1.1.3 1.1.2.2.4.1.1.4 1.1.2.2.4.1.1.5	1.1.2.2.4.1.1.2 Determine headin 1.1.2.2.4.1.1.2.1 1.1.2.2.4.1.1.2.3 1.1.2.2.4.1.1.2.4 Determine speed 1.1.2.2.4.1.1.3.1 1.1.2.2.4.1.1.3.2 1.1.2.2.4.1.1.3.3 Determine CPA Determine TCPA Determine intentic 1.1.2.2.4.1.6.1	Take radar bearings g of vessels Communicate Plot on radar Monitor ARPA vector Monitor vessel aspects of vessels Communicate Monitor ARPA vector Estimate on of vessels Communicate Communicate Communicate Communicate			
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				1.1.2.2.4.1.2	1.1.2.2.4.1.1.3 1.1.2.2.4.1.1.4 1.1.2.2.4.1.1.5 1.1.2.2.4.1.1.6	1.1.2.2.4.1.1.2 Determine headin 1.1.2.2.4.1.1.2.1 1.1.2.2.4.1.1.2.2 1.1.2.2.4.1.1.2.3 1.1.2.2.4.1.1.2.4 Determine speed 1.1.2.2.4.1.1.3.1 1.1.2.2.4.1.1.3.2 1.1.2.2.4.1.1.3.3 Determine CPA Determine TCPA Determine intentic 1.1.2.2.4.1.1.6.1 1.1.2.2.4.1.1.6.2 1.1.2.2.4.1.1.6.3	Take radar bearings g of vessels Communicate Plot on radar Monitor ARPA vector Monitor vessel aspects of vessels Communicate Monitor ARPA vector Estimate on of vessels Communicate Check behaviour Utilise knowledge or danger of collision			
				1.1.2.2.4.1.3	1.1.2.2.4.1.1.3 1.1.2.2.4.1.1.4 1.1.2.2.4.1.1.5 1.1.2.2.4.1.1.6 1.1.2.2.4.1.1.7 Apply collision as Determine marginal paragraphs of the collision as Determine marginal paragraphs.	1.1.2.2.4.1.1.2 Determine headin 1.1.2.2.4.1.1.2.1 1.1.2.2.4.1.1.2.3 1.1.2.2.4.1.1.2.4 Determine speed 1.1.2.2.4.1.1.3.1 1.1.2.2.4.1.1.3.2 1.1.2.2.4.1.1.3.3 Determine CPA Determine intentic 1.1.2.2.4.1.6.1 1.1.2.2.4.1.1.6.2 1.1.2.2.4.1.1.6.3 Determine whether	Take radar bearings g of vessels Communicate Plot on radar Monitor ARPA vector Monitor vessel aspects of vessels Communicate Monitor ARPA vector Estimate on of vessels Communicate Communicate Check behaviour Utilise knowledge er danger of collision ons			

			1.1.2.2.4.1.5		ourse and speed a	ctions			
			1.1.2.2.4.1.6	Communicate in	tentions				
				1.1.2.2.4.1.6.1	Use VHF				
				1.1.2.2.4.1.6.2	Use Whistle				
				1.1.2.2.4.1.6.3	Make use of own	vessel aspect			
		1.1.2.2.4.2	Avoid Groundi	ng				1.	
			1.1.2.2.4.2.1	Maintain knowle	dge of local situatio	n			
				1.1.2.2.4.2.1.1	Maintain chart cor	rections			
				1.1.2.2.4.2.1.2	Maintain awarenes	ss of mooring ops			
			1.1.2.2.4.2.2	Maintain awaren	ess of own ship cha	aracteristics			
			1.1.2.2.4.2.3	Monitor charted					
				Calculate actual					
				Monitor echo so					
			1.1.2.2.4.2.6	Maintain look ou					
			1.1.2.2.4.2.7	Monitor radar					
			1.1.2.2.4.2.8		r course and speed	1			
				Initiate evasive a					
	1.1.2.2.5				update voyage plan	2)			
	111121210		Determine dist		apadio vojago piai			1	
				Check weather of	lata				
			1.1.2.2.5.1.2						
				Calculate effect					
			Check charter		on current plan				
			Check ship rela						
				ite section / track					
				Define new ways	nointe				
				Define new ETA					
	11226	Log plan devia		Deline new ETA	, speed profile				
1100	Control has	ading and speed	4						
1.1.2.3		Set course							
	1.1.2.3.1		Control rudder	deflection					
			Monitor rudder						
			Observe rate of						
		-	Monitor course						
	11000		Monitor course	status					
	1.1.2.3.2	Set speed	0						
			Control propuls		1.0				
				Control shaft rev					
	-			Control propellor	pitch / revs				
			Monitor propuls						
				Monitor shaft rev					
				Monitor propellor	pitch / revs				
			Monitor speed	status					
1.1.2.4	_	tomatic control							
	1.1.2.4.1				ted bridge systems				
			Inform during h						
			Observe status						
				in status by alarm	S				
		Assess perform							
	1.1.2.4.3		ions of planned	course and speed					
		Anticipate dist	urbances	·					
	1.1.2.4.4	Anticipate distr 1.1.2.4.4.1	urbances	·	aults through linked	d systems			
1.1.2.5	1.1.2.4.4 Execute log	Anticipate distr 1.1.2.4.4.1	urbances	·		d systems			
1.1.2.5	1.1.2.4.4 Execute log	Anticipate distriction 1.1.2.4.4.1 gging	urbances Anticipate prop	·		d systems			
1.1.2.5	1.1.2.4.4 Execute log	Anticipate distriction 1.1.2.4.4.1 gging Organise arriv	urbances Anticipate prop	·		d systems			
1.1.2.5	1.1.2.4.4 Execute log	Anticipate distriction 1.1.2.4.4.1 gging Organise arriv 1.1.2.6.1.1	urbances Anticipate prop al Inform crew	·		d systems			
1.1.2.5	1.1.2.4.4 Execute log	Anticipate distinction 1.1.2.4.4.1 gging Organise arriv 1.1.2.6.1.1 1.1.2.6.1.2	Anticipate prop al Inform crew Inform Agent	agation of single f		d systems			
1.1.2.5	1.1.2.4.4 Execute log	Anticipate distinction and anticipate distinctio	Anticipate prop al Inform crew Inform Agent 1.1.2.6.1.2.1	agation of single f		d systems			
1.1.2.5	1.1.2.4.4 Execute log	Anticipate distriction 1.1.2.4.4.1 gging Organise arriv. 1.1.2.6.1.1 1.1.2.6.1.2	al Inform crew Inform Agent 1.1.2.6.1.2.1	agation of single f	aults through linked	d systems			
1.1.2.5	1.1.2.4.4 Execute log	Anticipate distinction and anticipate dist	al Inform crew Inform Agent 1.1.2.6.1.2.1 1.1.2.6.1.2.2	Inform Pilot Inform tug(s) Inform Linesmen	aults through linked	d systems			
1.1.2.5	1.1.2.4.4 Execute log	Anticipate distinction and anticipate dist	al Inform crew Inform Agent 1.1.2.6.1.2.1 1.1.2.6.1.2.2 1.1.2.6.1.2.3 1.1.2.6.1.2.4	Inform Pilot Inform tug(s) Inform Linesmen Inform VTMS	aults through linked	d systems			
1.1.2.5	1.1.2.4.4 Execute log	Anticipate distriction of the control of the contro	al Inform crew Inform Agent 1.1.2.6.1.2.1 1.1.2.6.1.2.2 1.1.2.6.1.2.4 Inform owner /	Inform Pilot Inform tug(s) Inform VTMS Charterer	aults through linked	d systems			
1.1.2.5	Execute lo Arrive 1.1.2.6.1	Anticipate distriction 1.1.2.4.4.1 gging Organise arriv 1.1.2.6.1.1 1.1.2.6.1.2	al Inform crew Inform Agent 1.1.2.6.1.2.1 1.1.2.6.1.2.3 1.1.2.6.1.2.4 Inform owner / Inform authorit	Inform Pilot Inform tug(s) Inform VTMS charterer les	aults through linked	d systems			
1.1.2.5	1.1.2.4.4 Execute log Arrive 1.1.2.6.1	Anticipate distriction 1.1.2.4.4.1 gging Organise arriv 1.1.2.6.1.1 1.1.2.6.1.2 1.1.2.6.1.4 Prepare engine	al Inform crew Inform Agent 1.1.2.6.1.2.1 1.1.2.6.1.2.3 1.1.2.6.1.2.4 Inform owner / Inform authorities for manoeuv	Inform Pilot Inform tug(s) Inform VTMS charterer les	aults through linked	d systems	1		
1.1.2.5	Execute lo Arrive 1.1.2.6.1	Anticipate distriction of the control of the contro	al Inform crew Inform Agent 1.1.2.6.1.2.1 1.1.2.6.1.2.2 1.1.2.6.1.2.4 Inform owner / Inform authorit es for manoeuv rrival checklist	Inform Pilot Inform tug(s) Inform Linesmen Inform VTMS charterer ies	aults through linked	d systems	1		
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				1.1.2.6.11.3	Heave vessel a	alongside			1		
					1.1.2.6.11.3.1	Use stoppers			1		
				1100111		Fix mooring lines	on bollards		1		
				1.1.2.6.11.4 F	Prepare vessel	access		L	1		
	1.1.3		te Voyage								
		1.1.3.1	Command	"finish with en	gines"						
			Complete lo								
		1.1.3.3	Complete v	oyage report							
	_										
1,2	Comm	unicate									
				2-3							
	1.2.2	Commun	nicate with s	hip owner / ch	arterer						
	1.2.3	1.2.3 Communicate with Agent 1.2.4 Communicate with Meteorological service									
	1.2.4	Commur	nicate with M	Meteorological	service						
1,3	Mainta	in Platfo									
		Clean vessel									
		Maintain stability									
		Ballast / trim vessel				-					
		Maintain seaworthiness									
		Check b	ilges							3	
		Prepare	arrival	1							
1,4	Monito	onitor and Maintain cargo status									
		Inspect of	cargo								