作成日:1999年12月17日

プロジェクト名:トルコ海事教育向上計画

実施場所:イスタンブール工科大学海事学部(ITUMF)・海事安全訓練センター(MSTC)

ターゲットグループ:トルコ船員

協力期間: 2000年4月1日~2005年3月31日

プロジェクトの要約	指標	入手手段	外部条件
上位目標 トルコ商船の安全性が高まる。	トルコ船員の事故	トルコ船員により生じた事故記録 MOU 海事年次報告書	
プロジェクト目標	トルコ船舶の PSC 件数		船員の需要が継続する
ITUMF 及び MSTC において国際基準を満たした船員が輩出さ	 ITUFM での STCW95 に沿ったカリキュラム・講座開設数 MSTC での STCW95 に沿ったカリキュラム・講座開設数	高等教育審議会への ITUMF 年次報告	加貝の需要が終続する トルコ商業海事セクターの協
れる。	STCW95 に沿った海技試験の合格率	MSTC の年次報告書	力が強化される
		卒業生の海技試験合格率	
	 1.2-a STCW95 に沿ったシラバス 1.2-b STCW95 に沿ったカリキュラム	1.2-a ITUMFのカリキュラム紀要	トルコの商業海事セクターが 学生にとって魅力的であり続
	1.2-c プロジェクトで導入された機材の利用率 1.2-d STCW95の基準を満たす教官の配置	1.2-b 機材の利用記録	ける
		1.2-c 高等教育審議会への ITUMF 年次 報 告書	STCW 内容が本質的に変わ らない
		3-a 高等教育審議会への ITUMF 年次報 告書	
-	3-c トルコ国内及び国外における研究成果の発表件数	3-b 刊行された報告書 3-c ITUMFが刊行する学術雑誌、紀要	
	3-e ITUMFが開催する国際会議の数	等 3-d 国際的に認知された学術論文集	
		3-e 国際集会議会報	
4 . MSTC において現職船員のための教育訓練が、国際基		4-a 再教育・再訓練コースリスト	
	4-b MSTCにおける再教育・再訓練コースへの参加者数 4-c MSTCにおける再教育・再訓練を受講した船員のセンター 認定試験合格率	4-b 再教育・再訓練受講者リスト 4-c 船員資格認定試験リスト	

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活動	投入		ITUMF の管理が保障される
1-1 航海科カリキュラムをレヴューし改善する。 現行カリキュラム・教授方法を分析する。 STCW95 に沿ってカリキュラムと教授方法を改善する。	トルコ側 (ITUMF) ・それぞれの JICA 長期専門家について 2 ~ 3 名のカウンタ	日本側 ・長期専門家の派遣	ITUMF が引き続き高等学校 卒業生に魅力がある 技術移転を受けたカウンター
1-2 乗船訓練カリキュラムをレヴューし改善する。 乗船訓練カリキュラムを分析する。 STCW95 に沿って乗船訓練カリキュラムを構築する。	ーバーとの配置 ・活動を実施する ITUMF と MSTC の土地・建物・施設 ・日本側から供与された機材設置施設の建設費 ・ ITUMF と MSTC スタッフの人件費の拠出 ・運営・管理費の拠出	チーフ・アドバイザー 海事教育(航海) 海事教育(機関) 訓練計画 海事安全管理研究	パートがプロジェクトに留まる 機材が計画通り供給され到着する
1-3 航海科教育・訓練終了後の学生技能評価方法をレビュ	・コンピューター技術の配置 ・日本人専門家から技術移転を受けたトルコ側スタッフによ るシミュレーションシステムの改定・刷新	航海 機関 海事安全管理研究	民間の海運会社から継続的に 乗船訓練への協力が得られる
1-4 操船シミュレーターを利用したカリキュラムを導入する。 シミュレーター及び周辺機器を設置する。 シミュレーターを利用した教育・訓練に適するよう現行		シミュレーションシステム ・機材供与 操船シミュレーターと機関室シミュレーター及びその周辺機器 視聴覚機材、模型、参考図書	
のカリキュラムを改善する。 シミュレーターを利用した新カリキュラムを導入する。 シミュレーターを利用した教育・訓練用評価基準を構築 する。		トルコ人カウンターパートの日本で の研修受け入れ	
シミュレーターを利用した教育・訓練の教官を養成する。 シミュレーター装置の管理・運用・保守要員を養成する。 シミュレーターソフトの開発・刷新要員を養成する。 シミュレーター教育・訓練を開始する。			
2- 1 機関科カリキュラムをレヴューし改善する。 現行カリキュラム・教授方法を分析する。 STCW95 に沿ってカリキュラムと教授方法を改善する。 視聴覚教材の活用を図る。			

2-2 機関科教育・訓練終了後の学生技能評価方法をレビュー し改善する。

現行評価方法の分析をする。 STCW95 に沿って評価方法を改善する。

2-3 機関室シミュレーターを利用したカリキュラムを導入する。

シミュレーター及び周辺機器を設置する。

シミュレーターを利用した教育・訓練に適するよう現行 のカリキュラムを改善する。

シミュレーターを利用した新カリキュラムを導入する。 シミュレーターを利用した教育・訓練用評価基準を構築 する。

3-1 海事安全管理に関する調査研究活動を強化する。 トルコ周辺海域の航行危険性の調査研究、分析を行う。 シミュレーターを利用した航行安全評価技術を理解する。

操船シミュレーターを利用し発展的応用法を理解する。

3-2 ヒューマン・エラーに関する調査研究活動を強化する。 船橋当直におけるヒューマン・エラー発生の想定、メカ ニズム分析とその対策技術を理解する。

機関室当直におけるヒューマン・エラー発生の想定、メカニズム分析とその対応技術を理解する。

3-3 海事活動の環境影響に関する調査研究活動を強化する。

船舶を発生源とする海上汚染の現状とその対応技術を理解する。

トルコ周辺海域における海上汚染事故発生の想定とその 対策技術を理解する。

4-1 MSTC における現職船員再教育・再訓練カリキュラムを レヴューし改善する。

現行カリキュラム・教授方法を分析する。 STCW95 に沿ってカリキュラムと教授方法を改善する。 視聴覚教材の活用を図る。 前提条件

政府がプロジェクトを推進 し、実施に関して異存が無い

4-2 MSTC において操船シミュレーター及び機関室シミュレーターを利用したカリキュラムを導入する。 シミュレーターを利用した教育訓練に適するよう現行のカリキュラムを改善する。 シミュレーターを利用した新カリキュラムを導入する。 シミュレーターを利用した教育訓練用評価基準を構築す		
る。		
シミュレーターを利用した教育訓練の教官を養成する。 シミュレーター教育訓練を開始する。		
4-3 ITUMF 卒業生への再教育・再訓練カリキュラムをレヴューし改善する。 上級操船技術の教育・訓練を選抜し設置する。 (タンカー、ケミカル・タンカー、液化ガスキャリア等の 特別船操作、巨大船の着岸、離岸着岸の操船)		
4-4 教材・参考図書を整備・改善する。		

プロジェクト名: トルコ海事教育向上プロジェクト

ターゲットグループ: トルコ船員

対象地域: イスタンブール工科大学海事学部(ITUMF) / 海事安全訓練センター (MSTC)

協力期間:2000年4月1日~2005年3月31日

	プロジェクトの要約	指標	入手手段	外部条件
	上位目標	トルコ船員が原因の事故	トルコ船員によって生じた事故記録	
	トルコ商船の安全性が高まる。	トルコ船員の質による PSC 件数	MOU 海事年次報告書	
	プロジェクト目標			船員の需要が継続する
	フロンエットロ協 ITUMF は国際基準を満たした教育システムを構築し、MSTC に	 ITUMF での STCW95 に沿ったカリキュラム・講座設置	高等教育審議会への ITUMF 年次報告	10日早~7冊交び 赤色がしょる
	おいては再訓練及び最新の国際基準を満たした船員が輩出され	数	書	トルコ商業海事セクターの協
	ర్ .	STCW95 よりも高い職業訓練及びアカデミックなプロ	MSTC の年次報告書	力が強化される
		グラムを含む教育システムが新たに設計される	**************************************	
		MSTC において資格を持った船員に対して SHS 及び	卒業生の海技試験合格率	
		ERS コースが設置される STCW95 に沿った海技試験の合格率		
7	成果	S1CW95 に沿つた/母技試験の合格率		
٥	ル末 1.ITUMF において航海科の教育訓練が国際基準に即して行	 1.2-a STCW95 及び上級海事技術に沿ったカリキュラム	1.2-a ITUMF のカリキュラム紀要	トルコの商業海事セクターが
	われる。	及びシラバス		学生にとって魅力的であり続
	2.ITUMF において機関科の教育訓練が国際基準に即して行	1.2-b プロジェクトで導入された機材の利用率	1.2-b 機材の利用記録	ける
	われる。	1.2-c STCW95 の基準を満たす教員の配置	 1.2-c 高等教育審議会への ITUMF 年次	amary 4 = 104 = 55 + 61 = -
				STCW 内容が本質的に変わらない
	3 . ITUMF における海事安全管理に関する調査・研究能力が		3-a 高等教育審議会への ITUMF 年次報	5411
	向上する。	3-b プロジェクトで導入された機材の利用率	告書	
	. • —	3-c トルコ国内及び国外における研究成果の発表件数	3-b 刊行された報告書	
		3-d 国際的に認知された学術論文集に掲載された論文数	3-c ITUMF が刊行する学術雑誌、紀要	
		3-e ITUMF が開催する国際会議の数	等	
			3-d 国際的に認知された学術論文集	
			3-e 国際集会会議報	
	4 . MSTC において現職船員の為の再訓練及び最新コースが国	4-a MSTC における再訓練及び最新コースの数	4-a,d 再訓練及び最新コースリスト	
	際基準に即して改善・拡充される。	4-b MSTCにおける再訓練及び最新コースへの参加者数	4-b,d 再訓練及び最新コースリスト	
		4-c MSTC における再訓練及び最新コースを受講した船	4-c 船員資格認定試験リスト	
		員のセンター認定試験合格率		
		4-d SHS 及び ERS コースの数		

1-1 航海科カリキュラムをレヴューし改善する。
る。

Table of Achievement

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Narrative	Objectively	Achievements	Important assumptions	Reality checks on important
summary	Verifiable indicators			assumptions
Overall goal	- Accident cases Turkish seafarers.	It is early to monitor the effectiveness of achievement for Turkish fields		•
Safe operation of Turkish merchant vessels in world-wide basis is enhanced.	- Number of cases of PSC (Port State Control) of Turkish vessels.			
Project Purpose	- Number of curriculum and lectures in accordance with STCW95 in ITUMF.	*Some research were carried out by research assistants &Lecturers.	Demand for seafarers sustains.	
ITUMF and MSTC produce educated or refreshed seafarers who meet international standards	 Number of curriculum and lectures in accordance with STCW95 in MSTC. Success rate of maritime oceangoing competency 	*ITUMF is still on progress .(graduates got the opportunity to be trained in E/R simulators) *ITUMF: students were benefited from the opportunities of partly MSTC advance courses. *ITUMF is still in progress to establish infrastructures & properties. *MSTC: All related courses in accordance with STCW were established and we still are on implementation in an advanced manner. *MSTC: 13 different courses were established for the industry. 3340 trainers were graduated from the MSTC courses .New infrastructure & properties were established such as firefighting ,etc. *MSTC: Fraudulent certificate that were obtained before were stopped & the real courses are initiated.	Associated cooperation of Turkish merchant maritime sector is encouraged.	

Outputs 1.Education and training in Deck	1.2-a Syllabus in accordance with STCW95.	Not yet. In progress.	Turkish merchant maritime sector is continuously attractive for students.	Improvement Techniques & Evaluation criteria are not defined in detail in STCW95, therefore further assessment is needed at university level.
Department of ITUMF is improved with international standards.	1.2-b Curriculum in accordance with STCW95. 1.2-c Utilization rate of equipment introduced by the Project. 1.2-d Assignment of instructors with competency	1.2.c Not yet. 1.2.d Nothing	The content of STCW95 does not change fundamentally.	Demands for seafarers sustains? Nationally decrease but internationally increased.
Education and training in Engine Department of ITUMF	satisfying STCW95.	2.Not yet. In progress.	Administration of ITUMF and MSTC is secured.	
is improved with international standard			ITMF is continuously attractive for the high school graduates.	
Research capacity concerning maritime safety management in ITUMF is enhanced.	3-a Number of research activities and reporting concerning maritime safety management. 3-b Utilization rate of introduced equipment for research use. 3-c Number of presented research works	3. b 50% 3.C .7 inside 27 outside	Counterpart personnel who have received technology transfer remain in the Project.	
	inside and outside of Turkey. 3-d Number of research reports carried on the internationally established journals. 3-e Number of international meetings held by		Equipment is supplied and arrived as planned. Cooperation from private	
4. Re-education and	ITUMF		maritime transportation companies regarding on- board training can be	
refreshment training for existing seafarers in MSTC is improved and expanded in accordance with international standards.	4-a Number of re-education and refreshment training courses in MSTC. 4-b Number of participants to refresher and updating training courses in MSTC. 4-c Success rate of participants to re-education and refreshment training courses in MSTC in maritime competency examination.	4.a.13 different courses 4.b.3340 trainees (by the end of September 2002) 4.c.95%	obtained continuously.	
	The To at the factor of the fa		Precondition	
			Turkish government is willing to conduct the Project and have no objection.	
				·

Activities	Achievements	Inputs	Actual inputs
	1.1.1 No (Due to recent updating National	Turkish side	Turkish side
1-1 Review and improve the curriculum of Deck department	Legislation)	*Assignment of 2~3	
Analyze the existing curriculum and teaching method.	1.1.2 No (Due to recent updating National	Counterparts to each long-	*1.2Million USD
② Improve the curriculum and teaching method in accordance with STCW95.	Legislation)	term experts.	
③ Utilize audio-visual teaching equipment.	1.1.3 Yes (but not enough)	*Land, buildings and	from Stage Planning Organization of Turkey

 ② Establish on board training curriculum in accordance with STCW95. Introduce the TRR(Training Record Book) and other training materials for on-board training of training. I.4. Sketting up the simulator is completed. It shall be improved. I.4. Sketting up the simulator is completed. It shall be improved to the straining of training. I.4. All seady prepared and waiting for the official straining. I.4. All seady prepared and waiting for the official straining. I.4. All seady prepared and waiting for the official straining. I.4. All seady prepared and waiting for the official straining. I.4. All seady prepared and waiting for the official straining. I.4. All seady prepared and waiting for the official straining. I.4. All seady prepared and waiting for the official straining. I.4. All seady prepared and waiting for the official straining. I.4. All seady prepared and waiting for the official straining. I.4. All seady prepared and waiting for the official straining. I.4. All seady prepared and waiting for the official straining of the	1-2 Keview and improve on-board training curriculum.	prepared . But improvement is needed.	MSIC.	DUIGING)
\$\frac{1}{\text{1.5}}\$ introduce the TRQ(Training Record Book) and other training materials for on-board training. Dat degreemen. 1.1.2 Arrive ward improve the evaluation method of students' skills after education and training utilizing ship-handling simulator. 2.1.3 All parts the citisting evaluation method of students' skills after education and training utilizing ship-handling simulator. 3.2 Eablish the criteria of evaluation for the education and training utilizing simulator. 3.3 Experiment and unating curriculum of the pripheral equipment. 3.4.5 All wasn'y done and there is planned future training instructors for the education and training utilizing simulator. 3.5 Eablish the criteria of evaluation for the education and training utilizing simulator. 3.5 Eablish the criteria of evaluation from the chargement of insulator. 3.5 Eablish the criteria of evaluation method of students' skills after education and training utilizing simulator. 3.6 Eablish the criteria of evaluation from the chargement of insulator. 3.6 Eablish the criteria of evaluation for the education and training utilizing simulator. 3.6 Eablish the criteria of evaluation for the chargement of insulator. 3.6 Eablish the criteria of evaluation for the chargement of insulator. 3.6 Eablish the criteria of evaluation for the chargement of insulator. 3.7 Environing instructors for the education and training utilizing simulator. 4.1.4 All wasn'y the existing curriculum and teaching method in accordance with STCW95. 5. Eablish the critical of evaluation method of students' skills after education and training utilizing simulator. 5. Eablish the critical of evaluation method of students' skills after education and training utilizing simulator. 5. Eablish the critical of evaluation of the chargement of simulator. 5. Eablish the critical of evaluation of the education and training utilizing simulator. 5. Eablish the critical of evaluation of the chargement of simulator. 5. Eablish the criteria of evaluation for the peripheral equipmen	① Analyze on-board training curriculum.	1.3 No activities.	*Expenses for construction	
1-3. Review and improve the evaluation method of students' skills after education and training beck department. 2. Improve the evaluation method of accordance with STCW95. 2. Improve the evaluation method in accordance with STCW95. 2. Improve the evaluation method in accordance and training utilizing simulator. 3. This improve the evaluation method in accordance with STCW95. 3. Improve the evaluation method in accordance with STCW95. 4. A Already prepared and used. 4. A Already propared and used. 4. A Al	③ Introduce the TRB(Training Record Book) and other training materials for			MSTC amond
1-3. Review and improve the evaluation method of students' skills after education and training utilizing armstance. 1-4. Already prepared and used. 1-4. Shawady done and there is planned future training utilizing armstance. 2-1. Improve the evaluation of the deciaction and training utilizing simulator. 3-1. State of the education and training utilizing armstance. 3-1. Train staff for analgement, operation and maintenance of simulator. 3-2. Review and improve the evaluation method of students' skills after education and training utilizing simulator. 3-2. State of the education and training utilizing armstance. 3-2. Indicate the criteria of evaluation freshed in accordance with STCW95. 3-3. Introduce curriculum utilizing armstance. 3-4. Review and improve the evaluation method of students' skills after education and training utilizing armstance. 3-5. Introduce curriculum utilizing armstance. 3-6. Introduce curriculum utilizing armstance. 3-7. Introduce the criteria of evaluation freshed in accordance with STCW95. 3-8. Introduce curriculum utilizing armstance. 3-8. Introduce curriculum utilizing armstance. 3-9. Set up simulator and other peripheral equipment. 3-1. Set up simulator and other peripheral equipment. 3-1. Introduce curriculum utilizing armstance. 3-1. Introduce curriculum utilizing armstance. 3-1. Introduce curriculum utilizing armstance. 3-2. Introduce curriculum utilizing armstance. 3-3. Introduce curriculum utilizing armstance. 3-4. Introduce curriculum utilizing armstance. 3-5. Introduce curriculum utilizing armstance. 3-6. Introduce curriculum utilizing armstance. 3-7. Introduce curriculum utilizing armstance. 3-8. Introduce curriculum utilizing armstance. 3-8. Introduce curriculum utilizing armstance. 3-9. Introduce curriculum utilizing armstance. 3-1. Introduce curriculum utilizing armstance. 3-1. Introduce curriculum utilizing armstance. 3-1. Introduce curriculum utilizing armstance. 3-2. Introduce curriculum utilizing armstance. 3-3. Introduce curriculum utilizing armstance. 3-4. Introduce cu	on-board training.		Japanese side.	
1.4.4 Already prepared and used. 2 Improve the exhaustion method in accordance with STCW95. 3 Improve the exhaustion method in accordance with STCW95. 4.8 Only for operation. 3 Set up simulator. 3 Ext up simulator and other peripheral equipment. 4.8 Not yet			*Salary of the staff of	Japanese side
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Improve the evaluation method in accordance with STCW95.			*Operational and running	*Engine room simulator
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2.2.1 Comments: The working "skills" should be replaced by "proficiency". Currently, ITUFM does not have enough infrastructures for evaluation, such as labs and workshops. 2.2.2 No activities. 2.2.2 No activities. 2.2.2 No activities. 2.2.2 No activities. 2.3.1 Completed. However shortage of workstations is creating a big difficulty in fully utilization of ERS in Engine Department. 2.3.2 Parthy achieved 2.3.3 Still in progress. 2.2.2 Parthy achieved 2.3.5 Completed satisfactory. 2.3.6 Completed satisfactory. 2.3.7 Not yet 2.3.8 The working "skills" should be replaced by "proficiency". Currently, ITUFM does not sate yealuation as creating a big difficulty in fully utilizing simulator, engine room simulator. 2.3 Still in progress. 2.2 Parthy achieve. 2.3.5 Completed satisfactory. 2.3.6 Completed satisfactory. 2.3.7 Does 50% 2.3 Still in progress. 2.3 Still on the water near Turkey. 3.1 Done 50% 3.1.1 Done 50% 3.1.2 Not yet 3.1.3 Not yet 3.1.3 Not yet 3.1.4 Done 50% 3.1.4 Not done so far. Planed to carry out next senseter (SHS was installed very recently) 3.2 Initial stage. Party achieve. 3.3 Still continuous. 3.4 In pro	Analyze the existing evaluation method.			
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3-3 ETIDISTICS (ESSECT) ACTIVITIES CONCERNING ENVIRONMENTAL Affect on maritime. Measurement and analysis still aceticular.	3-3 Enhance research activities concerning environmental effect on maritime			1
3-3 Enhance research activities concerning environmental effect on maritime -Measurement and analysis still continuing.	activities	-weasurement and analysis still continuing.		
activities. O Understand the situation of sea pollution caused by vessels and the specification is needed (CFD)		and improvement of computer		

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Assume the occurrence of sea pollution in the water near Turkey and			
understand the countermeasures.			
4-1 Review and improve the curriculum of re-education and refreshment	4.1.1 Completed		
training fir existing seafarers in MSTC.	4.1.2 Completed		
Analyze the existing curriculum and teaching method.	4.1.3 Yes (but not enough)		
Introduce the new curriculum utilizing simulator.	1.1.0 Tes (sur not enough)		
Establish the criteria of evaluation for the education and training utilizing			
simulator.			
Train instructors for the education and training utilizing simulator.			
Start the education and training utilizing			
simulator.			
4-2 Introduce the curriculum utilizing ship handling and engine room	4.2.1 Completed (BTM/BRM)		
simulator in MSTC.	4.2.2 Completed (BTM/BRM)		
Improve the existing curriculum to fit in the education and training utilizing	4.2.3 Completed (BTM/BRM)		
simulator.	4.2.4 Yes (partly completed) need more.		
Introduce the new curriculum utilizing simulator.	4.2.5 Not yet		
Establish the criteria of evaluation for the education and training utilizing			
simulator.			
Train instructors for the education and training utilizing simulator			
Start the education and training utilizing simulator.			
4-3 Review and improve the curriculum of re-education and refreshment	4.3 Not yet		
training for the graduates of ITUMF.	4.3 The concept is changed not only "The		
Select and set up education and training concerning the advanced ship-	graduate of ITUMF", but all Turkish		
handling skills.	seafarers and also foreign seafarers (for near		
(Ship-handling of special vessels such as Tanker , Chemical Tanker, Liquid	future)		
Gas Carrier, Approach ship-handling of big vessels to the berth, Ship-	14641 0)		
handling for leaving and approach to berth).			
indianing for rearing and approach to bertily.			
4-4 Improve the teaching materials and references.			
T T Improve the teaching materials and references.	4.4 Yes, 5% but not enough (need more)		
	4.4 163, 570 but not enough (need more)	<u> </u>	

	Problems	Cause of Problems	Tentative action	Necessity of reporting JICA HQ	Modification or revise of PDM
	1. Almost all laboratory facilities and computer systems are not enough for both students and staff.	1. Lack of number and quality of equipment and facility.	 1-1 Budget allocation should be prepared for the establishment of laboratories. 1-2 Be arrange cargo stowage laboratory in ITUMF. 1-3 Delivery of new computer and one projector is necessary. 1-4 Stand alone units for self study can be provided 	1.Must be reported	11A statement such as "Enhancement of ITUMF fundamental Labs is necessary " should be marked. 1-2 In PDM there is a statement for "evaluation & monitoring performance". It should be amended as "established &Enhancement of Labs.
85	2.Current Data Analysis of Turkish Maritime Education is not exist	2. Long term experts don't give this item priority.	2. We should start collect data from the MET institution in Turkey as well as to collect data from Turkish industry in order to see what we are.		
	3. ERS has design problems	3.Maker did not produce according to the original specifications.			
		4.There are only 6 work stations. Students can not make self exercise.	4.Delivery of work station or PC bases simulator	4.Necessary	
	5.On board training to be provided on Boaro faculty vessel.	5.Trainig Vessel is not functional	5-1 Check the feasibility to use. 5-2 Repair immediately	5.Report	

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	6.Cause of Problems of SHS: software design .No operation and function realism us provided by manufacture.	6.JICA should warn the manufacture in order to correct the software in international standers.	6.JICA will consider for future cooperation on SHS for research and education.
7.Deck & Engine Depts. Curriculums to be updated as per STCW95.	7.Since 1997 Deck and Engine curriculums have not been changed.	7.New national legislation to be implemented	
8.Maintenance of simulators(warranty was expired)	8-1 Manufacture's maintenance program is too expensive. 8-2 ITUMF do not have electronic technician/programmers	8-1ITUMF should look for new hiring of Research assistants and technicians. ITUMF need to look ways of allocating budget for workshop. 8-2 Proposal should be made ton JICS for allocation of maintenance budget until the end of JICA-ITUMF project	8. Necessary
9.Software design activities have not stated yet in SHS.	9.There is not long term experts for software of SHS		9.Long -term Expert on SHS software is on the process of recruitment by JICA.
10.Teaching method in classrooms were not enhanced or improved.	10.CBT facilities are not satisfactory. Other A/V equipment are not enough and computers in classroom.	10.CBT to be provided(budget allocation)	10.It is already written in PDM, it is necessary to report.
11-1 Research activity facilities are not enough. 11-2 Research production is not enough.	11-1 Facility of laboratories for Environmental Research activities should be improved. 11-2 Many of computers are not enough to run/read Bosphorus project. Also detailed equipment do not exist at all.	11.The scope of research should be enlarged.	11.Necessary

12.ITUMF lost his direction between university education and license training. Curriculums show to much respect to IMO model Course.	Deck Department has only vocational perspective to educate students for	12-1The new curriculum concept should be carried out . 12-2 The deck department should offer elective majors to students in upper class.	verifiable indicators of existing PDM relating with STCW should be	Curriculum in according with advanced MaritimeTechnology.

アンダーライン部分は修正、追加、削除した部分を示す。

当初 PDM	PDM 修正版	修正理由
1999 年 12 月 17 日 R/D 調査時に 作成。	2002 年 10 月 22 日中間評価時に 修正。	
欄外		
プロジェクトタイトル、対象地域 のみの記載	期間、ターゲットグループ、バー ジョン、修正日を明記	PDM の明確化
上位目標		
Safe operation of Turkish merchant vessels in world-wide basis is enhanced.	修正無し	
(指標)		
-Accident cases Turkish seafarers.	-Accidents cases caused by Turkish seafarers.	-トルコ船員が原因の事故と明確 にする為,加筆。
Number of cases of PSC (Port State Control) of Turkish vessels.	-Number of cases of PSC (Port State control) <u>due to Turkish</u> <u>seafarers' quality.</u>	-人的要因を明確にする為、修正。
プロジェクト目標		
-ITUMF and MSTC produce educated or refreshed seafarers who meet international standards.	-ITUMF establishes educational system to produce educated seafarers and MSTC produces refresher and up-dated seafarers that meet international standards.	-プロジェクト期間内に達成できる ITUMF(学部の学生への教育) と MSTC(現役船員への再教育) が、異なったそれぞれの目標を明確にする為、加筆及び修正。
(指標)		
	-Newly designed educational system including both vocational and academic program which exceeds STCW95.	-STCW95 より上級の教育システムを構築する必要性が、中間評価ワークショップでカウンターパート側より提言された為に、追加。
-Number of curriculum and lectures in accordance with STCW95 in MSTC	-SHS and ERS courses are established for licensed seafarers in MSTC.	-以前の指標は、既に達成されており、後半はシミュレータを用いた訓練コースが中心になることから修正。
成果		
1.Education and training in Deck Department of ITUMF is improved in accordance with international standards. 2.Education and training in Engine Department of ITUMF is improved in accordance with international standards.	変更無し変更無し	
(指標) 1,2-a Syllabus in accordance with STCW95. 1,2-b Curriculum in accordance with STCW95	1,2-a Curriculum and syllabus in accordance with STCW95 and advanced maritime technology.	STCW95 及び上級レベルの教育 を網羅する為に加筆修正。
4.Re-education and refreshment training for existing seafarers in MSTC is improved and expanded in accordance with international standards.	4.Refresher and up-dated courses for existing seafarers in MSTC is improved and expanded in accordance with international standards.	STCW95 の表記に従って修正。
(指標)		

アンダーライン部分は修正、追加、削除した部分を示す。

4-a Number of re-education and refreshment training courses in MSTC. 4-b Number of participants to re-education and refreshment training courses in MSTC. 4-c Success rate of participants to re-education and refreshment training courses in MSTC in maritime competency examination.	4-a Number of refresher and updated courses in MSTC. 4-bNumber of participants to refresher and updated training courses in MSTC. 4-c Success rate of participants to refresher and updated courses in MSTC. 4-d Number of SHS and ERS courses.	STCW95 の表記に従って修正。 同上 同上 シミュレータを用いた訓練コース を明確にする為、加筆。
(入手手段) 4-a List of re-education and refreshment training courses in MSTC. 4-b List of participants to re-education and refreshment training.	4-a,d List of refresher and updated courses. 4-b,d List of participants to refresher and updated courses.	STCW95 の表記に従って修正, 及び d について、追加。 同上。
活動 1-3 Review and improve the	削除	STCW95 で評価に関しては詳細
evaluation method of students' skills after education and training in Deck department. 2-2 Review and improve the evaluation method of students' skills after education and training in Engine department.		が記載されておらず、大学レベル ではさらなる査定が必要である 為、削除することが中間評価ワークショップで提言され、削除。
	1-3 Establishment and enhancement of laboratories in Deck department. 2-2 Establishment and enhancement of laboratories in Engine department.	国際基準に合った実験施設の改善と強化が必要である為、PDM への加筆が中間評価ワークショップで提言され追加。
3-2 Enhance research activities concerning human error.	3-2 Enhance research activities concerning human <u>factor</u> .	調査範囲を広げる為に修正。
4-1 Review and improve the curriculum of re-education and refreshment training for existing seafarers in MSTC.	4-1 Review and improve the curriculum if refresher and updated courses for existing seafarers in MSTC.	STCW95 の表記に従って修正。
4-3 Review and improve the curriculum of re-education and refreshment training for the graduates of ITUMF.	削除	再訓練を受ける者には、ITUMF の卒業生が当然含まれているので 削除。
活動の小項目		重複した内容で有る為、運営計画 に記載されていれば十分なことか ら、削除。

取得·寄託 年月日	調達場所	資機材名		仕様・規格	数 量	金額	通貨	購入先
2001.Jan	現地調達	流体解析用 コンピュータ	Computer for Fluid Analysis	2 sets of Personal Computer	1	10,112	\$	Data Teknik
2001.Mar	現地調達	視聴覚教育用 プロジェクター	Projector for AV based education	Sony VPS-CS 10	3	4,625	\$	Empati Bilisim
2001.Mar	現地調達	視聴覚教育用 ラップトップ コンピュータ	Lap-top Computer for AV based education	Karizma 750-G3	2	3,639	\$	Data Teknik
2001.Mar	現地調達	視聴覚教育用 OHP	OHP for AV based education	3M M9400	2	807	\$	Data Teknik
2001.Mar	現地調達	機関室シミュレ ータ追加機材	Additional Equipment for Engine Room Simulator	1 Local Operation Station 2 Student Workstation 1 Server Station	1	138,060	\$	Antares Denizcilik
2001.Mar	現地調達	流体解析用ソフ トウェア	Software for Fluid Analysis	Star-CD fir Prostar for 2 active CPUs	1	9,506	\$	Infotron
2001.Mar	現地調達	眼球運動計測装 置	Equipment to measure the Eyeball Movement	Eye Mark recorder Eye Mark Detection Unit, Controller, Analyzer	1	68,000	\$	Itochu
2001.Mar	現地調達	液体貨物ハンド リングシミュレ ータ	Liquid Cargo Handling Simulator	Server Workstation x 1 Student Workstation x6	1	69,000	\$	Retelmak
2001.Mar	現地調達	機関室シミュレ ータ用 UPS	UPS for Engine Room Simulator	Tuncmatik Powerline Compact LT 2000	4	938	\$	Destek
2001.Apr	本邦調達	機関室シミュレ ータ	Engine Room Simulator	Norcontrol Engine Room Simulator	1	135,660	千円	大洋電気
2002.Mar	本邦調達	操船シミュレー タ	Ship-Handling Simulator	Ship-Handling Simulator	1	220,500	千円	日本海洋科学