

Code No.	Sub No.	Description	Unit	Qty
BE1048		Syringe-injectors in set	set	5
BE1049		Electrocardiograph	pc	1
BE1050		Freezer	pc	1
BE1051		Electric oven with time switch	pc	1
BE1052		Cow model for insemination	pc	1
BE1053		Model of cow skeleton	pc	1
BE1054		Model of cow internal organs, muscular system	pc	1
BE1055		Drying chamber	pc	1
BE1056		Special instrument for piercing, branding, tattooing of animals	set	1
BE1057		Anemometer	pc	1
BE1058		Gas analyzer	pc	1
BE1059		Hygrometer	pc	1
BE1060		Goggles	pc	1
BE1061		Shedding units for horses, big-horn animals, pigs, dogs	set	1
BE1062		Pregnancy calendar for agricultural animals	pc	1
BE1063		Pincers for nose	set	1
BE1064		Obstetrical loops	pc	1
BE1065		Water bath	pc	1
BE1066		Syringe catheters in set	pc	1
BE1067		Egg incubator	pc	1
BE1068		Auto-feeder	pc	1
BE1069		Feed mixer	pc	1
BE1070		Infra-red lamp with stand	pc	1
BE1071		Ultraviolet lamp with stand	pc	1
BE1072		Milking machine	pc	1
BE1073		Wool cutters/shearing device in set with grinders	pc	13
BE2000		7.2 Technology for preservation of agricultural products		
BE2002		Inspection conveyor	pc	1
BE2003		Vegetable slicer	pc	1
BE2004		Frying device	pc	1
BE2005		Cutting table	pc	3
BE2007		Can seamer and bottle capper	pc	1
BE2008		Autoclave	pc	2
BE2009		Kneader	pc	2
BE2010		Juicer	pc	1
BE2011		Juice press	pc	1
BE2012		Mark printing machine	pc	1
BE2013		Meat chopper	pc	1
BE2014		Twin screw mixer	pc	1
UT0000		8 Urgut PC of Construction and National Handicraft		
UT1000		8.1 Joiner's carpentry and parquet works		
UT1001		Thickness planer	pc	1
UT1002		Wood lathe	pc	1
UT1003		Jointer	pc	1
UT1004		Tenon cutting machine	pc	1
UT1005		Saw sharpening machine	pc	1
UT1006		Mortising machine	pc	1
UT1007		Portable circular saw	pc	1
UT1008		Router machine	pc	1
UT1009		Electric floor sander	pc	1
UT1010		Electric floor planer	pc	1
UT1011		Electric floor polisher	pc	1
UT1012		Belt sander	pc	1
UT1013		Pedestal grinder	pc	1
UT1014		Portable electric planer	pc	1
UT1015		Circular saw	pc	1
UT1016		Spray gun with air compressor	pc	1
UT1017		Lacquer sprayer	pc	1
UT1018		Radial saw	pc	1
UT1019		Saw blade set	set	1
UT1020		Carpentry tools set	set	1
UT1021		Hand saw	pc	13
UT1022		Wood chisel set	set	13
UT1023		Jack plane	pc	13

Code No.	Sub No.	Description	Unit	Qty
UT1024		Smoothing plane	pc	13
TA0000		9. Tashkent Technologic PC		
TA1000		9.1 Food processing (bread, sweets, macaronis confectionary)		
TA1003		Screening machine of flour and sugar	pc	1
TA1006		Kneader for dough	pc	2
TA1008		Dividing and making roll dough machine	pc	1
TA1012		Bakery oven	pc	1
TA1013		Macaroni extruder and formation machine	pc	1
TA1028		Molder	pc	1
TA1030		Grinding mill for recovery product	pc	1
TA1031		Bakery oven for cookie	pc	1
TA1032		Kneader for macaroni dough	pc	1
TA1033		Cutting machine for wafer	pc	1
TA1034		Press machine for cookie	pc	1
TA1036		Mixer for viscous materials	pc	1
TA1038		Éclair formative machine	pc	1
TA1039		Kneader for biscuit and cream	pc	1
TA1041		Emulsion-mixer for batter and wafer paste	pc	1
TA1042		Waffle baker	pc	1
TA1043		Coating machine for paste	pc	1
TA1044		Bakery fermentation box	pc	1
TA1047		Automatic twist-wrapping machine for cookies and wafers	pc	1
TA1048		Macaroni dryer	pc	1
TA1049		Revers sheet	pc	1
TA2000		9.2 Operation and maintenance of equipment for food production		
TA2001		Air separator	pc	1
TA2002		Vibration separator	pc	1
TA2003		Disk cleaner for grain	pc	1
TA2006		Magnetic separator	pc	1
TA2007		Grain flow meter	pc	1
TA2008		Dosing mechanism for grain	pc	1
TA2009		Wet grain pilling machine	pc	1
TA2010		Polishing machine for grain	pc	1
TA2011		Sieving machine for grain	pc	1
TA2013		Peeler machine	pc	1
TA2014		Bucker	pc	1
TA2015		Mixer for fodders	pc	1
TA2016		Roller mill	pc	1
TA2017		Threshing machine	pc	1
CM0000		10. Common Equipment for 9 PCs		
CM0001		Overhead projector	pc	9
CM0002		Video camera (handy type)	pc	9
CM0003		LCD projector with screen	set	9
CM0004		Voideo authorization system	set	9
CM0007		Mini bus	pc	9
C00000		11. IDSSVE, CSSVE & Regional Centers		
F00000		11.3 IDSSVE (Faculty)		
F10000		11.3.1 Server section		
F10001		Proxy/mail server	pc	1
F10002		Fire wall /DNS server	pc	1
F10003		Network computer	pc	1
F10005		UPS	pc	3
F10006		Laser printer	pc	1
F10008		HUB A	pc	1
F10009		HUB B	pc	9
F10010		Modem	pc	2
F30000		11.3.3 Chair of information		
F30001		Computer	pc	2
F30005		Scanner	pc	1
F30006		Color printer	pc	1
F40000		11.3.4 Chair of professional methods		
F40001		Computer	pc	1
F40002		Laser printer	pc	1

Code No.	Sub No.	Description	Unit	Qty
F50000		11.3.5 Chair of pedagogic and psychology		
F50001		Computer	pc	1
F50002		Laser printer	pc	1
F60000		11.3.6 Chair of economy and management		
F60001		Computer	pc	1
F60002		Laser printer	pc	1
F70000		11.3.7 Chair of public subjects		
F70001		Computer	pc	1
F70002		Laser printer	pc	1
F80000		11.3.8 Class Rooms(5)		
F80003		Multimedia projector with screen	set	3
F80004		OHP	pc	3
F80005		Video eye	pc	3
F80007		Blackboard	pc	5
F80008		Stand board	pc	3
F90000		11.3.9 Conference Hall		
F90005		Audio video set	set	1
F90012		Video camera	pc	1
FA0000		11.3.10 Digitalized Library		
FA0001		Server computer	pc	1
FA0002		Computer	pc	1
FA0003		UPS	pc	2
FA0004		Laser printer	pc	1
FA0005		Multimedia projector with screen	set	1
FA0007		Copy machine A3	pc	1
FA0010		TV and video set	set	1
FA0011		Video camera	pc	1
FA0014		Blackboard	pc	1
FA0015		Stand board	pc	1
FB0000		11.3.11 Mini Printing Room		
FB0010		Copy machine A3	pc	1
FC0000		11.3.12 Printing House		
FC1000		(The Shop of Preprinting Prepare)		
FC1100		(Designer Section)		
FC1101		Server computer	pc	1
FC1102		Computer	pc	2
FC1103		UPS	pc	3
FC1107		Scanner, flat-bed	pc	1
FC1108		Printer for color testing	pc	1
FC1110		Laser printer, A4	pc	1
FC1111		Printer, color A3	pc	1
FC1200		(Section of Computer Composition)		
FC1201		Computer	pc	3
FC1202		UPS	pc	3
FC1205		Assembled table	pc	1
FC2000		(The Shop of Printing)		
FC2100		(Section of Making Forms)		
FC2101		Film printer (Imagesetter)	pc	1
FC2102		Film processor	pc	1
FC2103		PS plate printer	pc	1
FC2104		PS plate processor	pc	1
FC2105		Assembled table	pc	1
FC2200		(Section of Printing)		
FC2201		Printing machine, 2-Color	pc	1
FC2202		Printing machine, mono-color	pc	1
FC2205		Digital printer A3	pc	1
FC3000		(After Printing Shop)		
FC3001		Folding machine	pc	1
FC3004		Select machine for writing books	pc	1
FC3006		Thread sewing machine	pc	1
FC3007		Wire sewing machine	pc	1
FC3010		Thermobinding machine	pc	1
FC3012		l-knife cut machine for big sheets	pc	1
FC4000		(Special Equipment)		

Code No.	Sub No.	Description	Unit	Qty
FC4001		Measuring equipment (densitometer)	set	1
FC5000		(Additional equipment)		
FC5001		Humidifier, hygrometer	lot	1
FD0000		11.3.13 For retraining on information technology		
FD1000		(Laboratory of New Information Technology)		
FD1001		Server computer	pc	1
FD1002		Computer	pc	4
FD1004		UPS	pc	5
FD1005		(Network equipment)		
FD1006		Computer(Notebook type)	pc	2
FD1007		Scanner A3	pc	1
FD1009		Laser printer, color	pc	1
FD1012		CD/R-RW	pc	2
FD1016		Multimedia projector	pc	1
FD1026		TV and video set	pc	1
FD1028		Video tape recorder, digital	pc	1
FD1029		Audio tape recorder	pc	1
FD1030		Video camera, digital	pc	2
FD1031		Photo camera, digital	pc	2
FD1033		CD & DVD player	pc	1
FD1036		Fax machine	pc	1
FD2000		(Specialized IT Class Room)		
FD2001		Server computer	pc	1
FD2002		Computer	pc	13
FD2003		UPS	pc	14
FD2004		Laser printer	pc	1
FD2007		Multimedia projector	pc	1
FD2008		OHP	pc	1
FD2009		Video eye	pc	1
FD2010		Blackboard	pc	1
FD2011		Stand board	pc	1

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PROJECT SITE

No.	Site	Course/Section/Contents	
1	Nukus Polytechnic PC	1,1	Metal works
		1,2	Welding
2	Urgench Medical PC	2,1	Nursing
		2,2	Pharmacology
3	Namangan Agro-Economics PC	3,1	Veterinary
		3,2	Agronomy
4	Asaka Agricultural PC	4,1	O&M of agricultural machines and equipment
5	Kokand PC of Human Services	5,1	Public catering
		5,2	Repair & service of radio engineering and tele-equipment
6	Bukhara Construction and Municipal PC	6,1	Installation & repair of equipment for gas supply system
		6,2	Installation of electric networks and equipment
7	Beshkent Agricultural PC	7,1	Zoo-technics
		7,2	Technology for preservation of agricultural products
8	Urugut PC of Construction and National Handicraft	8,1	Joiner's carpentry and parquet works
9	Tashkent Technologic PC	9,1	Food processing (bread, sweets, macaronis, confectionary)
		9,2	O&M of equipment for food production
10	Common Equipment for 9 PCs	10	Audio-visual equipment, vehicle
11	Institute for Development of Secondary Specialized, Vocational Education (IDSSVE)	11,3	Computers and network equipment
			Printing machines and equipment

Japan's Grant Aid Program

The Grant Aid Scheme provides a recipient country with non-reimbursable funds to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for economic and social development of the country under principles in accordance with the relevant laws and regulations of Japan. Grant Aid is not supplied through the donation of materials as such.

1. Grant Aid Procedures

- (1) Japan's Grant Aid Scheme is executed through the following procedures.
 - a) Application (Request made by a recipient country)
 - b) Study (Basic Design Study conducted by JICA)
 - c) Appraisal & Approval (Appraisal by the Government of Japan and approval by Cabinet)
 - d) Determination of Implementation (The Notes exchanged between the Governments of Japan and the recipient country)
 - e) Implementation (Implementation of the Project)

(2) Firstly, the application or request for a Grant Aid project submitted by a recipient country is examined by the Government of Japan (Ministry of Foreign Affairs) to determine whether or not it is eligible for Grant Aid. If the request is deemed appropriate, the Government of Japan assigns JICA to conduct a study on the request. If necessary, JICA send a Preliminary Study Team to the recipient country to confirm the contents of the request.

Secondly, JICA conducts the study (Basic Design Study), using Japanese consulting firms.

Thirdly, the Government of Japan appraises the project to see whether or not it is suitable for Japan's Grant Aid Programme, based on the Basic Design Study report prepared by JICA, and the results are then submitted to the Cabinet for approval.

Fourthly, the project, once approved by the Cabinet, becomes official with the Exchange of Notes signed by the Governments of Japan and the recipient country.

Finally, for the implementation of the project, JICA assists the recipient country in such matters as preparing tenders, contracts and so on.

2. Basic Design Study

(1) Contents of the Study

The aim of the Basic Design Study (hereinafter referred to as "the Study"), conducted by JICA on a requested project (hereinafter referred to as "the Project"), is to provide a basic document necessary for the appraisal of the Project by the Government of Japan. The contents of the Study are as follows:

- a) confirmation of the background, objectives and benefits of the Project and also institutional capacity of agencies concerned of the recipient country necessary for the Project's implementation;
- b) evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from the technical, social and economic points of view;
- c) confirmation of items agreed on by both parties concerning the basic

- concept of the Project;
- d) preparation of a basic design of the Project; and
- e) estimation of costs of the Project.

The contents of the original request are not necessarily approved in their initial form as the contents of the Grant Aid project. The Basic Design of the Project is confirmed considering the guidelines of Japan's Grant Aid Scheme.

The Government of Japan requests the Government of the recipient country to take whatever measures are necessary to ensure its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the organization in the recipient country actually implementing the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country through the Minutes of Discussions.

(2) Selection of Consultants

For the smooth implementation of the Study, JICA uses a consulting firm selected through its own procedure (competitive proposal). The selected firm participates the Study and prepares a report based upon the terms of reference set by JICA.

At the beginning of implementation after the Exchange of Notes, for the services of the Detailed Design and Construction Supervision of the Project, JICA recommends the same consulting firm which participated in the Study to the recipient country, in order to maintain the technical consistency between the Basic Design and Detailed Design.

3. Japan's Grant Aid Scheme

(1) Exchange of Notes (E/N)

Japan's Grant Aid is extended in accordance with the Notes exchanged by the two Governments concerned, in which the objectives of the project, period of execution, conditions and amount of the Grant Aid, etc., are confirmed.

(2) "The period of the Grant" means the one fiscal year which the Cabinet approves the project for. Within the fiscal year, all procedure such as exchanging of the Notes, concluding contracts with consulting firms and contractors and final payment to them must be completed.

However, in case of delays in delivery, installation or construction due to unforeseen factors such as weather, the period of the Grant Aid can be further extended for a maximum of one fiscal year at most by mutual agreement between the two Governments.

(3) Under the Grant, in principle, Japanese products and services including transport or those of the recipient country are to be purchased.

When the two Governments deem it necessary, the Grant Aid may be used for the purchase of the products or services of a third country.

However, the prime contractors, namely consulting, constructing and procurement firms, are limited to "Japanese nationals". (The term "Japanese nationals" means persons of Japanese nationality or Japanese corporations controlled by persons of Japanese nationality.)

(4) Necessity of "Verification"

The Government of the recipient country or its designated authority will conclude contracts denominated in Japanese yen with Japanese nationals. Those contracts shall be verified by the Government of Japan. This "Verification" is deemed necessary to secure accountability to Japanese taxpayers.

(5) Undertakings required to the Government of the Recipient Country

In the implementation of the Grant Aid project, the recipient country is required to undertake such necessary measures as the following:

- a) to secure a lot of land necessary for the construction of the Project and to clear the site;
- b) to provide facilities for distribution of electricity, water supply and drainage and other incidental facilities outside the site;
- c) to ensure prompt unloading and customs clearance at ports of disembarkation in the recipient country and internal transportation therein of the products purchased under the Grant Aid;
- d) to exempt Japanese nationals from customs duties, internal taxes and fiscal levies which may be imposed in the recipient country with respect to the supply of the products and services under the verified contracts;
- e) to accord Japanese nationals whose services may be required in connection with the supply of the products and services under the verified contracts such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work;
- f) to ensure that the facilities constructed and products purchased under the Grant Aid be maintained and used properly and effectively for the Project; and
- g) to bear all the expenses, other than those covered by the Grant Aid, necessary for the Project.

(6) "Proper Use"

The recipient country is required to maintain and use the facilities constructed and equipment purchased under the Grant Aid properly and effectively and to assign the necessary staff for operation and maintenance of them as well as to bear all the expenses other than those covered by the Grant Aid.

(7) "Re-export"

The products purchased under the Grant Aid shall not be re-exported from the recipient country.

(8) Banking Arrangement (B/A)

a) The Government of the recipient country or its designated authority should open an account in the name of the Government of the recipient country in a bank in Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the verified contracts.

b) The payments will be made when payment requests are presented by the Bank to the Government of Japan under an Authorization to Pay A/P issued by the Government of recipient country or its designated authority.

(9) Authorization to Pay (A/P)

The Government of the recipient country should bear an advising commission of an Authorization to Pay and payment commissions to the Bank.

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Major undertakings by each government

No.	Items	To be covered by Grant Aid	To be covered by Recipient side
1	To bear the following commissions to a bank of Japan for the banking services based upon the B/A		
	1) Advising commission of A/P		•
	2) Payment commission		•
2	To ensure prompt unloading and customs clearance at the port of disembarkation in recipient country		
	1) Marine(Air) transportation of the products from Japan to the recipient country	•	
	2) Tax exemption and customs clearance of the products at the port of disembarkation		•
	3) Internal transportation from the port of disembarkation to the project site	(•)	(•)
3	To accord Japanese nationals whose services may be required in connection with the supply of the products and the services under the verified contract such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work		•
4	To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in the recipient country with respect to the supply of the products and services under the verified contracts		•
5	To maintain and use properly and effectively the facilities constructed and equipment provided under the Grant		•
6	To bear all the expenses, other than those to be borne by the Grant, necessary for construction of the facilities as well as for transportation and installation of the equipment		•

Necessary measures to be taken by the Uzbekistan side

The following necessary measures should be taken by the Uzbekistan side on condition that the Grant Aid by the Government of Japan is extended to the Project.

1. To provide necessary data and information whenever the Japanese side requests;
2. To allocate enough budget to procure required spare parts and materials necessary for operation and maintenance;
3. To allocate enough numbers of engineers and administration staff for the Project;
4. To secure a route to transport and deliver machinery and equipment for installation;
5. To provide a safe storage place for machinery and equipment after delivery and before installation; and
6. To obtain documents required for obtaining the approval or permit for landing and customs clearance of machinery and equipment to be imported for the project, together with bearing necessary expenses including charges and fees.



資料 8. 基本設計概要表

1. 協力対象事業名
ウズベキスタン共和国 中等専門教育開発研究所機材整備計画
2. 我が国が援助することの必要性・妥当性
<p>(1) 我が国が当該国に対し援助することの必要性・妥当性</p> <p>ウズベキスタン（以下、「ウ」国とする）はソ連崩壊後の新たな国際情勢において地政学的に重要な位置をしめている国であり、また同国の民主化、市場経済導入への動きは ODA 大綱の観点からも望ましいものであるため、同国が人材不足や経済インフラの老朽化、環境悪化などの問題に効率的に対処し、経済的な困難を克服して国づくりを行えるように、我が国は同国に対し積極的な支援を行っている。98 年 11 月の同国との間での ODA 政策協議の結果等を踏まえ、(1) 市場経済化移行支援、(2) 運輸インフラ整備、(3) 環境保全、(4) 地方医療、(5) 民主化・行政支援、を我が国支援の重点分野としている。</p> <p>(2) 当該プロジェクトを実施することの必要性・妥当性</p> <p>「ウ」国政府は中等専門教育機関を整理統合し、人口の過半数を占める 20 歳以下の若年労働者に職業能力を身につけさせるため、実践的な職業教育科目を充実させ、産業界に即戦力として参入できる人材を育成することに中等教育の重点を置いた「国家人材育成プログラム」を 1997 年に制定し、教育システムの抜本的な改革に取り組んでいる。これに対し、アジア開発銀行、日本国際協力銀行、韓国経済協力基金をはじめとするドナーは、中等教育分野に対して、借款、技術協力等の支援を積極的に行っている。</p> <p>一方、職業カレッジの教育・訓練用機材は、旧ソ連時代から受け継がれた旧式の機材が殆どで近年の産業界の技術と教育現場での実習内容に乖離がある、等の問題を抱えている。このため、新しい技術と教育法を身につけた教員の養成、特に新しい技術の習得を目標とした実習を含む現職教員の再訓練は喫緊の課題となっている。この課題に対応するべく、全国の幹部教職員の再訓練、資格向上を実施する中等専門教育開発研究所が設立され、新しい教育指導方法等に対する定期的な研修が実施されている。本計画の協力対象である同研究所は中等専門教育分野の教育計画の策定、教材作成の役割も担っている。他方、専門職業科目の教員再訓練に関しては、地域のパイロット校とされている職業カレッジ等において 270 の職業分野で約 2,000 科目をカバーする技術更新のための再訓練が実施されており、各地域の産業立地状況、雇用需要等に基づき今回の協力対象 9 校が選定された。</p> <p>また、近年、教科書等の使用言語をロシア語からウズベク語に転換し、民族的な自覚を高めるといふ政府方針に沿って、教材のウズベク語化が進められており、教員再訓練における教材作成においても、同様にウズベク語での作成が必要となっているものの、教材のような多種少量の印刷需要には市中の印刷所ではコストが掛かりすぎるため、十分対応できていない現状である。</p> <p>中高等専門教育省の下部機関である中等専門教育センターは、教員再訓練の中心的な実施機関である中等専門教育開発研究所の機材が依然として旧式であり不十分な訓練しかできないこと、専門科目の教員再訓練用機材が老朽化・旧式化していることから、これら機材を整備する計画を策定し、我が国に対して無償資金協力を要請してきた。</p>
3. 協力対象事業の目的（プロジェクト目標）
中等専門教育開発研究所及び 9 校の職業カレッジに対し教員再訓練用の機材を整備する

ことにより、中等専門教育分野の教員再訓練機能が強化され、職業カレッジにおける教育の質が向上する。

4. 協力対象事業の内容

(1) 対象地域

ウズベキスタン国全国

(2) アウトプット

職業カレッジ9校で専門科目に係る教員再訓練用機材が、また中等専門教育開発研究所で再訓練と教材作成に係る機材が整備される。

(3) インプット

【日本側】

職業教育用機材（金属加工、溶接技術、看護学、薬学、獣医学、農学、農業機械保守、外食・仕出、無線通信機器保守、ガス供給設備保守、電気設備保守、動物学、農産品貯蔵、建築仕上・木工、製パン・製麺・製菓、食品加工機械保守の各コース）、コンピュータ・ネットワーク及び印刷機械の調達

【ウズベキスタン側】

調達機材のための建物改修、電気設備工事、配管設備工事、空調換気工事、防災設備工事、機材移設工事等。

(4) 総事業費

概算事業費 7.15 億円（日本側 7.08 億円、ウズベキスタン国側 0.07 億円）

(5) スケジュール

詳細設計期間を含め約 14 ヶ月を予定

(6) 実施体制

実施機関：中等専門教育センター

運営機関：中等専門教育開発研究所、職業カレッジ（9校）

5. プロジェクトの成果

(1) プロジェクトの裨益対象の範囲及び規模

中等専門教育開発研究所：全国の中等専門教育に従事する教職員 1,800 人／年間

職業カレッジ9校：各地域の再訓練対象教員 700 人／年間

(2) 事業の目的（プロジェクト目標）達成を示す成果指標

座学中心の再訓練から実習中心に移行（運営機関で実践的な職業教育が可能となる）

	2002年（実施前）	2008年（機材調達後3年）
全体教員数	約 49,000 人	約 130,000 人
再訓練受講生数	2,300 人/年	2,500 人/年
機材を利用した実習比率 （座学時間数/実習時間数）	0～10%	40～65%

再訓練用教材（300種類）の印刷頁数の増加

印刷費用効果

	2002年（実施前）	2008年（機材調達後3年）
教材印刷頁数	0 頁	約 15,840,000 頁
印刷費用（単価）	外注：8 スム/頁	内製：6 スム/頁

(注) 1 スム=0.001027 米ドル

(3) その他の成果指標

学生の実習時間数の増加 (校内で、専門科目で機材を共用する)

	2002年(実施前)	2008年(機材調達後3年)
機材を利用した実習比率 (座学時間数/実習時間数)	0~10%	20~50%
学生の就職率	61~86%	86~100%

6. 外部要因リスク (事業の目的 (プロジェクト目標) の達成に関するもの)

(1) 運営・維持管理のための要員・予算が確保される必要がある

(2) 産業界、専門職業分野の雇用ニーズが変動しないこと

雇用ニーズが変動すると専門職業分野にも影響し、成果指標に影響が出る可能性がある。

7. 今後の評価計画

(1) 事後評価に用いる成果指標

① 再訓練計画対象教員数 (人)

② 機材を利用した再訓練実習時間数

③ 再訓練用教材印刷頁数 (枚)

(2) 評価のタイミング

2008年以降

資料9. 入手資料リスト

	資料名称	数量	発行元	内容
1	工業統計 2001(ロシア語)	1	マクロ経済統計省	工業部門の全国統計
2	社会経済統計 2001(ロシア語)	1	マクロ経済統計省	社会経済関連全国統計
3	州統計年鑑 2001(ロシア語)	1	マクロ経済統計省	州別地域統計
4	人口統計 1991-2001 (ロシア語)	1	マクロ経済統計省	全国の各種人口統計
5	質問回答書(英語)	1	中等専門教育センター	中等専門教育センターに関連する Questionnaireに対する回答書
6	質問回答書(英語)	1	中等専門教育開発研究所	中等専門教育開発研究所に関連する Questionnaireに対する回答書
7	再訓練カリキュラム(英語)	1	高中等専門教育省	幹部教職員、技術指導員の再訓練カリ キュラムの抜粋
8	職業カレッジ(9校)データ	1	中等専門教育センター	プロジェクト対象9パイロット校の学校別 Questionnaireに対する回答書
9	閣僚会議府令第400号(英語)	1	閣僚会議府	教員再訓練計画に係る法令
10	公共投資計画 2000-2002(英語)	1	マクロ経済統計省	公共投資に係る国家計画
11	国家戦略とプログラム 2002-2004(英語)	1	アジア開発銀行	アジア開発銀行による対ウズベキスタン 支援戦略
12	国別援助計画 2001-2003 ウズベキスタン (英語)	1	アジア開発銀行	アジア開発銀行によるウズベキスタン向け 援助計画