



THE ASSOCIATION FOR OVERSEAS TECHNICAL SCHOLARSHIP[AOTS]

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April 2011

Program Outline

&

Participation Requirements

of

The Program for Quality Problem Solving

[PQPS]

24 August – 6 September 2011

1. BACKGROUND OF THE PROGRAM:

AOTS - the Association for Overseas Technical Scholarship - is a non-profit association run with Japanese government subsidies from the Ministry of Economy, Trade and Industry (METI). Since its establishment in 1959, AOTS has been conducting various technical and management training programs in Japan for the people of developing countries. The total number of participants in past AOTS training programs amounts to almost 155,000 from about 170 developing countries and regions. These former participants are playing very important roles in industry and contributing greatly to the economic development of their respective countries.

At the request of former participants of AOTS training programs as well as the industrial and business circles in developing countries, AOTS has been organizing various training programs.

The Program for Quality Problem Solving (PQPS) is designed as one of AOTS's flagship courses for all the developing countries to learn business management/administration techniques and their underlying ways of thinking, all of which are characteristics of Japanese companies. It also aims to strengthen and improve the problem-solving abilities of managers of companies in developing countries, with a view to improving quality.

2. COUNTRY:

Please refer to the List of Target countries and regions.

(http://www.aots.or.jp/jp/use/kokunai/pdf/e_taishokoku.pdf)

3. COUNTRY AND NUMBER OF PARTICIPANTS

30 participants from developing countries

4. PARTICIPATION REQUIREMENTS:

Participants should have the following qualifications.

- (1) Participants should be, in principle, managers or supervisors in the manufacturing industry, who wish to acquire practical knowledge of techniques for improving quality and resolving important problems (people who are beginners in the field of quality problem solving, or who have little experience in this field, or who wish to acquire leadership ability).
- (2) Participants should be between 25 and 60 years of age.
- (3) Participants should be university graduates and/or have equivalent professional experience.
- (4) Participants should be healthy enough to undergo an intensive training program in Japan.
- (5) Participants should be able to understand lectures, engage in discussions, give presentations and formulate reports in English.
- (6) Participants should be residing in developing countries.
- (7) Participants should not be students or armed forces personnel.
- (8) AOTS ex-participants who have recently been awarded an AOTS Scholarship and participated in an AOTS training program in Japan are not entitled to apply for any program which starts within six months (183 days) after they have returned home from Japan.

Notes:

- (1) In the case of Japanese companies and/or companies that have Japanese capital, persons who are engaged in the duties described in the participation requirements are able to participate in this program without regard to their positions.
- (2) Family members are not allowed to accompany the participants to Japan.
- (3) Participants shall not request AOTS to arrange, nor arrange by themselves, any additional programs, and shall leave Japan and return to their home country soon after the completion of the program. However, this will not apply where a Japanese host company plans specialized technical training after the end of this course and obtains approval from AOTS for this.
- (4) The Guarantee Letter, which is one of the invitation documents to be issued by AOTS, shall be used only for the purpose of obtaining a training visa and shall not be used for any other purposes, such as participants' business.
- (5) The number of participants for the same host company or from the same sending company may be limited if there are more applicants than AOTS can accept.

5. APPLICATION PROCEDURE:

Applicants should apply to AOTS by submitting the following documents to reach AOTS Head Office **by no later than 20 June 2011**.

- (1) AOTS Training Application Form, Applicant's Personal Record and Medical Check Sheet
(AOTS official form: Handwriting shall be avoided.)
- (2) 2 copies of a photo (4 cm×3 cm) (Please write down the applicant's name on the back.)
- (3) Brochure of the applicant's company/organization
- (4) Photocopy of a passport, an election card, a driver's license or any other identification document issued by a public organization in the applicant's country containing, in Roman letters, the applicant's name in full, a photo of the applicant and his/her date of birth
- (5) Overseas Travel Insurance Consent Form
- (6) Pre-Training Report and Readiness Test Answer Sheets
- (7) About the handling of Personal Information Concerning Trainees (AOTS official form)
The applicant himself or herself is required to submit a form bearing his or her own signature. Either in the absence of agreement, or non-submittance, course participation will not be granted.
- (8) Enquiry into Training Contract (For Japanese Joint-Venture-Companies and Companies exclusively funded by Japanese Enterprises)

The required documents (Application Form, etc.) can be downloaded from the following Website.

http://www.aots.or.jp/eng/t_prg_j/management/documents/documents.html

The application documents will be forwarded to the AOTS Screening Committee, which will meet on 21 July 2011, for official approval of participation. Those who have successfully passed the screening process will be notified when they receive the invitation documents.

Notes: If the number of participants is less than 16 as of 20 June 2011, AOTS may postpone or cancel this program.

6. OUTLINE OF THE PROGRAM:

- OBJECTIVES

- (1) Through lectures and case studies focusing mainly on practical understanding of each step in QC stories, the program seeks to ensure that participants master approaches to and ways of utilizing QC problem solving methods, which are particularly important in TQM.
- (2) The program seeks to ensure that participants improve their own ability to resolve quality problems in their workplaces.
- (3) The program aims to improve the ability of participants to lead and promote problem-solving activities in their workplaces.

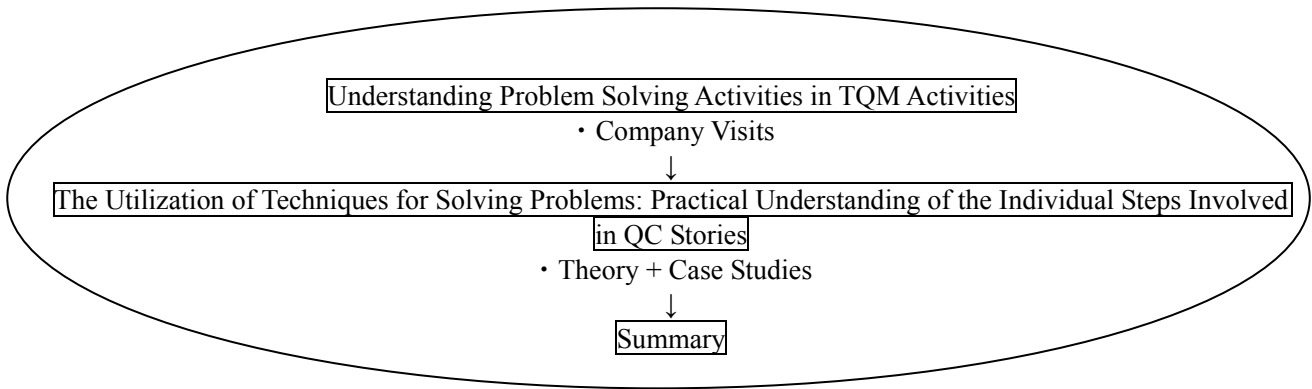
- DURATION

24 August – 6 September 2011 (2 weeks)

- CONTENTS

Participants will develop a general understanding of TQM in Japan and the quality problem solving techniques that fulfill an important role therein. Furthermore, participants will intensively study techniques for solving problems relating to quality, focusing on developing a practical understanding of each step involved in QC stories.

In particular, with regard to the individual steps in QC stories, participants will gain theoretical knowledge from the lectures in the morning, and will then learn how to put that theory into practice through case studies in the afternoon. Moreover, participants will visit Japanese companies that are practicing excellent quality activities, to learn about examples of those activities. This curriculum focuses on “what should I do and how should I do it”, based on the positions of both managers and staff involved in the promotion of TQM and quality management, so it can be put into practice immediately after participants return to their home countries.



The course will usually consist of three hours in the morning and three hours in the afternoon. Group discussions may take place after dinner.

Please see the draft timetable for further details.

- LANGUAGE

All lectures, company visits and exercises will be conducted in English or Japanese with translation into English. The program documents and training materials will be prepared in English.

- SENIOR PROGRAM DIRECTOR

Dr. Noriaki Kano
 Professor Emeritus, Tokyo University of Science
 Board Member, Komatsu Co., Ltd.
 Honorary Chairperson, Asian Network for Quality (ANQ)
 Committee Member, Deming Application Prize
 Academician, International Quality Academy
 Board Member, Association for Overseas Technical Scholarship (AOTS)
 Board Member, Union of Japanese Scientists and Engineers (JUSE)
 President, Japan Society for Quality Control (2000 - 2002)
 Chairperson, The Deming Application Prize Committee (2004 – 2007)

Dr. Kano is one of the most prominent figures in the TQM field in Japan. His numerous research results, such as “The House of TQM”, “Attractive Quality and Must-Be Quality (Kano Model)”, and “The Task Achieving QC Story” have brought him an international reputation. He has published more than 300 research papers and books. He is renowned throughout the world as the founder of the “Kano Model.” He was awarded the 1997 Deming Prize for Individuals by the Deming Prize Committee (JUSE), the 1997 Deming Lecturer by the American Statistical Association (ASA) and the 2002 E. Jack Lancaster Medal and the 2006 E. L. Grant Medal by the American Society for Quality (ASQ).

- PROGRAM DIRECTOR

Mr. Yukihiro Ando
 TQM Consultant
 Lead Examiner, the Deming Prize Committee
 Chairman, International Committee of the Japanese Society of Quality Control (JSQC)
 Board member, Asian Network for Quality (ANQ)
 Honorary Advisor, Saitama Region QC Circle
 Member of the Committee on the Domestic Response to ISO/TC176
 Visiting Professor, the Okuma School of Public Management, Waseda University (2004 – 2005)

Mr. Yukihiro Ando has been offering his expertise as a TQM consultant for many years to a large number of companies in both manufacturing and service sectors both at home and abroad, of which 25 companies have been awarded the Deming Application Prizes. As well as serving as coordinator of the “AOTS Program for Quality Management” (PQM) for many years, he is a lecturer for quality management seminars held by

organizations such as the Union of Japanese Scientists and Engineers, and has established a reputation as a lecturer who gives practical, enjoyable lectures. He has published many books on TQM. He was awarded the 1987 and 1997 Nikkei QC Literature Prizes.

- COURSE PLANNING COMMITTEE

Mr. Yoshihisa Matsuda	Registered Consulting Engineer (Quality Management) Lecturer, Tokyo University of Science, Otsuma Women's University Advisor of QC Circle Headquarters
Dr. Masahiko Munechika	Professor, Faculty of Science and Engineering, Associate Dean, School of Creative Science and Engineering, Waseda University
Dr. Kazuyuki Suzuki	Professor, Department of Social Intelligence and Informatics, Graduate School of Information Systems, the University of Electro-Communications
Dr. Tomomichi Suzuki	Associate Professor, Department of Industrial Administration, Faculty of Science and Technology, Tokyo University of Science
Dr. Hiroe Tsubaki	Director and Professor of Risk Analysis Research Center, the Institute of Statistical Mathematics, Research Organization of Information and Systems
Dr. Satoko Tsuru	Professor, Healthcare Social System Engineering Laboratory, School of Engineering, the University of Tokyo

- TRAINING LOCATION AND ACCOMMODATION

AOTS Tokyo Kenshu Center (TKC) <may change in consideration of various factors>

<http://www.aots.or.jp/eng/about/center/tkc.html>

30-1, Senju-Azuma 1-chome, Adachi-ku, Tokyo 120-8534, Japan
Tel: 81-3-3888-8231 (Reception) Fax: 81-3-3888-0763

Please refer to item 7 for further information on accommodation.

**Tentative Schedule of
The Program for Quality Problem Solving [PQPS]**

24 August – 6 September 2011

AOTS Tokyo Kenshu Center<To Be Determined>

	Morning Session	Afternoon Session
23 Aug. (Tue.)	(Arrival in Japan)	
24 (Wed.)	Orientation Opening Ceremony	LECTURE: Introduction to TQM The Importance of Problem Solving Activities
25 (Thu.)	LECTURE: Approaches to and Ways of Implementing Problem Solving Exercise (Individual Exercise and Group Exercise)	
26 (Fri.)	LECTURE: “Understanding the Current Situation” and Techniques for This (2) -How to Draw a Control Chart	LECTURE: “Understanding the Current Situation” and Techniques for This (2) -Control Charts (Time Series Graphs) Exercise / Case Study: -Histograms + Control Charts
27 (Sat.)	Day Off	
28 (Sun.)	Day Off	
29 (Mon.)	LECTURE: “Understanding the Current Situation” and Techniques for This (3) -Check Sheets and Pareto Diagrams	LECTURE: “Analysis” and Techniques for This (1) -Cause-and-Effect Diagrams “Standardization” and Techniques for This
30 (Tue.)	COMPANY VISIT 1: Improvement Activities Through QC Circles Promoting QC Circle Activities	
31 (Wed.)	LECTURE: “Analysis” and Techniques for This (2) -How to Draw a Scatter Diagram -Scatter Diagrams and Stratification	LECTURE: “Analysis” and Techniques for This (3) -Regression analysis
1 Sept. (Thu.)	Case Study / Thematic Research: Comprehensive Exercise Using Histograms, Control Charts and Scatter Diagrams	
2 (Fri.)	COMPANY VISIT 2: Problem Solving Case Study	
3 (Sat.)	Day Off	
4 (Sun.)	Day Off	
5 (Mon.)	Test of Level of Understanding	Comprehensive Case Study
6 (Tue.)	Comprehensive Case Study Group Discussion & Presentation General Questions Regarding Problem Solving Activities	Special Lecture: “Quality Management” Training Evaluation Session and Closing Ceremony
7 (Fri.)	(Departure from Japan)	

Remarks:

- 1) The above schedule is subject to change for the convenience of lecturers and cooperating companies, or for other unavoidable reasons.
- 2) Participants may be required to complete homework or engage in group discussions in the evenings.
- 3) Though Saturdays and Sundays are days off in general, lectures may be scheduled if deemed necessary.

7. ACCOMMODATION: <To Be Determined>

During the training period, participants will be accommodated at an AOTS Kenshu Center. AOTS will provide a participant with accommodation in a single room to the value of ¥8,500 per day with meals (lunch, dinner and breakfast). The said conditions are subject to change due to unavoidable reasons.

Please note that AOTS Kenshu Center canteens are closed on Sundays. The participant will receive ¥2,500 in cash per day for meals to cover this day.

Participants in principle are requested to arrive in Japan the day before the commencement of the training program and leave Japan the day after the final day of the program.

The after-mentioned participation fee estimate(s) reflect(s) the case when a participant lodges at an AOTS Kenshu Center. The suggested amounts may vary otherwise.

8. TRAINING COSTS:

8.1) Application from host companies in Japan

In applying for this program, please contact 'Scholarship Administration Group' listed in 10. FURTHER INFORMATION.

8.2) Application from overseas countries

1) Outline

AOTS training programs are financed by Official Development Assistance (ODA) subsidies from the Japanese Ministry of Economy, Trade and Industry (METI) together with the Participation Fee (Contributions from Participant) from the participants themselves.

Participants shall pay the Participation Fee (Contributions from Participant) in cash to AOTS after their arrival in Japan.

The Training Costs will vary in accordance with the actual airfare and participants' staying days. Therefore, the Participation Fee will be finalized after their arrival in Japan.

The Estimates of the Participation Fee for the countries of Category 1* and for the countries in Category 2* are shown in Tables 1-1 and 1-2.

Please note that the subsidy from the Japanese government will be applicable from the day before the commencement of the training program to the final day of the training program in principle.

**Please refer to Table 3 "List of Target Countries and Regions"*

2) Breakdown

1. Participation Fee (Contributions from Participant)

The Participation Fee, which consists of Contribution to Allowance Costs and Contribution to Course Implementation Costs is the amount participants should bear.

Each participant will be requested to pay the Participation Fee to AOTS in cash after his/her arrival in Japan.

(1) The Contribution to Allowance Costs for the participants from the countries in Category 1 is 25% of the Allowance Costs (2-(1)). The Contribution to Allowance Costs is not set up for the participants from the countries in Category 2.

(2) The Contribution to Course Implementation Costs is ¥93,000 for a 2-week AOTS Management Training Program.

2. Training Costs

The Training Costs are the total amount of expenses to invite a participant to a training program in Japan. It is the sum of (1) Allowance Costs, (2) Course Implementation Costs (3) Domestic Travel Allowance.

(1) Allowance Costs

a. International Travel Expenses

- **Participants from China will not have their International Travel Expenses subsidized.**
- Participants will purchase their own round-trip air tickets, concerning which there are no restrictions pertaining to boarding class.
- The subsidy from the Japanese government will cover the actual airfare up to the Standard Airfare Limits (the AOTS's Standard Airfare Limits for 2011 is shown in Table 2.).
- Please refer to "Guidelines for Purchase of Air Tickets by the Participant" for the arrangement and the method of reimbursement for details.
- A participant is not allowed to overstay at city(ies) of a third country between participant home country and Japan for any reasons other than flight convenience. In such a case, AOTS might not reimburse the International Travel Expenses to the participant.
- International travel expenses are provided if an air ticket and its receipt satisfy required conditions; not provided if unsatisfying conditions or for a free ticket.

b. Accommodation and Meal Allowance

At the AOTS Kenshu Center

- AOTS will provide a participant with accommodation to the value of ¥8,500 per day with meals (lunch, dinner and breakfast), while the participant stays at an AOTS Kenshu Center.
- For the arrival day, AOTS will provide a participant with accommodation to the value of ¥7,700 per day with dinner and breakfast at an AOTS Kenshu Center.

c. Personal Allowance

- AOTS will pay ¥800 per day in cash to a participant.

(2) Course Implementation Costs

Course Implementation Costs, which is the cost to carry out a 2-week AOTS Management Training Program, is ¥372,000.

(3) Domestic Travel Allowance

- Expenses for a part of transportation fee between international airport in Japan and AOTS Kenshu Center
- AOTS will pay ¥1,900 in cash to a participant for the cost of travel between Narita Airport and AOTS Tokyo Kenshu Center (TKC).

3. The amount to be paid in cash to participants by AOTS

The following allowances and expenses will be paid in cash as per Table 1 to each participant after his/her arrival in Japan.

- (1) Subsidy for international travel expenses (when they are claimable for subsidy)
- (2) Personal Allowance (¥800 x staying days)
- (3) Domestic Travel Allowance

4. Contribution to AOTS's Administration Cost

The Contribution to AOTS's Administration Costs is ¥1,800 per day for the participants from the countries in Category 1, and ¥1,000 per day for the participants from the countries in Category 2, and covers administrative expenses. The participant is kindly requested to pay the Contribution to AOTS's Administration Cost.

[Table 1-1] Estimate of the Fees and Costs [the Country of Category 1]
***The amounts and figures for the Fiscal Year 2011 (April 1, 2011 – March 31, 2012)**

Country: Thailand

International Travel Expenses: Bangkok - Narita /Japan, Roundtrip

Management Training Course: 2 -week Course

1. Participation Fee (Contributions from Participant)

(Japanese Yen)

		With International Travel Expenses subsidy	Without International Travel Expenses subsidy
(1) Contribution to Allowances Costs	[A] x 0.25	51,725	34,675
(2) Contribution to Course Implementation Costs		93,000	93,000
Total		144,725	127,675

2. Training Costs

		With International Travel Expenses subsidy	Without International Travel Expenses subsidy
(1) Allowance Costs			
a. International Travel Expenses		68,200	0 [1]
b. Accommodation and Meal Allowances			
at the AOTS Kenshu Center	@ 7,700 x 1 day =	7,700	7,700 (paid in kind)
	(Arrival Day)		
	@ 8,500 x 14 days =	119,000	119,000 (paid in kind)
during the study tour			
Meal Allowance	@ 2,500 x 0 day(s) =	0	0 [3]
Accommodation Allowance	@ 9,800 x 0 day(s) =	0	0 (paid in kind)
c. Personal Allowance	@ 800 x 15 days =	12,000	12,000 [2]
Sub Total		206,900	138,700 [A]
(2) Course Implementation Costs		372,000	372,000
(3) Domestic Travel Allowance	(Narita Airport - TKC)	1,900	1,900 [4]
Total		580,800	512,600

[1] The maximum amount of airfare claimable for subsidy to the air ticket's purchase. Air ticket will be purchased by participant. AOTS will subsidize the amount in accordance with rules & regulations.

3. The amount to be paid in cash to participant by AOTS

		With International Travel Expenses subsidy	Without International Travel Expenses subsidy
(1) International Travel Expenses subsidy	[1]	68,200	0
(2) Personal Allowance	[2]	12,000	12,000
	[SUM1]	80,200	12,000
(3) Meal Allowance during the study tour	[3]	0	0
(4) Domestic Travel Allowance in Japan	[4]	1,900	1,900
	[SUM2]	1,900	1,900
Total = [SUM1]+[SUM2]		82,100	13,900

*[1] provided if an air ticket and its receipt satisfy required conditions; not provided if unsatisfying conditions or for a free ticket

4. Contribution to AOTS's Administration Costs

The amount mentioned below covers administrative expenses.

The participant is kindly requested to pay the Contribution to AOTS's Administration Cost.

@ 1,800 x 15 days = **27,000**

[Table 1-2] Estimate of the Fees and Costs [the Country of Category 2]***The amounts and figures for the Fiscal Year 2011(April 1, 2011 – March 31, 2012)****Country: Bangladesh****International Travel Expenses: Bangladesh - Narita /Japan, Roundtrip****Management Training Course: 2 -week Course****1. Participation Fee (Contributions from Participant)**

		(Japanese Yen)	
		With International Travel Expenses subsidy	Without International Travel Expenses subsidy
(1) Contribution to Allowances Costs	[A] x 0	0	0
(2) Contribution to Course Implementation Costs		93,000	93,000
Total		93,000	93,000

2. Training Costs

		(Japanese Yen)	
		With International Travel Expenses subsidy	Without International Travel Expenses subsidy
(1) Allowance Costs			
a. International Travel Expenses		127,400	0 [1]
b. Accommodation and Meal Allowances at the AOTS Kenshu Center @ 7,700 x 1 day =	(Arrival Day)	7,700	7,700 (paid in kind)
during the study tour @ 8,500 x 14 days =		119,000	119,000 (paid in kind)
Meal Allowance @ 2,500 x 0 day(s) =		0	0 [3]
Accommodation Allowance @ 9,800 x 0 day(s) =		0	0 (paid in kind)
c. Personal Allowance @ 800 x 15 days =		12,000	12,000 [2]
Sub Total		266,100	138,700 [A]
(2) Course Implementation Costs		372,000	372,000
(3) Domestic Travel Allowance (Narita Airport - TKC)		1,900	1,900 [4]
Total		640,000	512,600

[1] The maximum amount of airfare claimable for subsidy to the air ticket's purchase. Air ticket will be purchased by participant. AOTS will subsidize the amount in accordance with rules & regulations.

3. The amount to be paid in cash to participant by AOTS

		With International Travel Expenses subsidy	Without International Travel Expenses subsidy
(1) International Travel Expenses subsidy	[1]	127,400	0
(2) Personal Allowance	[2]	12,000	12,000
	[SUM1]	139,400	12,000
(3) Meal Allowance during the study tour	[3]	0	0
(4) Domestic Travel Allowance in Japan	[4]	1,900	1,900
	[SUM2]	1,900	1,900
Total =[SUM1]+[SUM2]		141,300	13,900

*[1] provided if an air ticket and its receipt satisfy required conditions; not provided if unsatisfying conditions or for a free ticket

4. Contribution to AOTS's Administration Costs

The amount mentioned below covers administrative expenses.

The participant is kindly requested to pay the Contribution to AOTS's Administration Cost.

@ 1,000 x 15 days = 15,000

Table 2 Standard Airfare Limits (FY 2011)

* Mark indicates the countries of category 2.

Unit: Japanese Yen

Area	Country	Place of Departure	Place of Arrival	Airfare Limit	Area	Country	Place of Departure	Place of Arrival	Airfare Limit	
Southeast Asia	Indonesia	Jakarta		68,100	Central and South America	Nicaragua			178,700	
		Manado		56,800		* Haiti			200,500	
	* Cambodia			82,500		Panama			192,200	
	Singapore			59,200		Paraguay			166,500	
	Thailand	Bangkok		68,200		Brazil			137,000	
		Chiang Mai		80,600		Venezuela			199,900	
	Philippines	Cebu	Narita			45,100	Peru			159,800
			Kansai			43,500	Bolivia			182,800
			Chubu			44,400	Honduras			163,800
		Manila	Narita			43,800	Mexico	Guadalajara		187,700
			Kansai			36,500		Mexico City		136,500
	Chubu		47,700	Tijuana				112,800		
	Davao	Narita		51,000		Mazatlan			172,000	
	Vietnam			86,100		San Luis Potosi			172,000	
	Malaysia	Kuala Lumpur		72,700		Monterrey			140,700	
		Kota Kinabalu		71,400		Morelia			168,900	
* Myanmar			93,600	Cancun		169,800				
* Laos			69,200	Algeria			168,000			
North east Asia	Mongolia	Ulan Bator	Narita	109,100	* Uganda			86,100		
			Kansai	97,800	Egypt			68,700		
			Chubu	68,000	* Ethiopia			123,200		
Middle Asia	* Afghanistan			239,300	Ghana			182,600		
	Uzbekistan	Tashkent	Narita	169,200	Cameroon			205,300		
			Kansai	156,800	Kenya			82,200		
Kazakhstan			175,100	* Zambia	Lusaka		160,400			
South Asia	India	Calcutta		107,200	Ndola			232,800		
		Cochin		111,300	Zimbabwe			125,100		
		Chennai		103,000	* Sudan			129,400		
		Thiruvananthapuram		125,500	Seychelles			44,400		
		Delhi		102,600	* Senegal			231,900		
		Hyderabad		100,200	* Tanzania			89,700		
		Bangalore		110,500	Tunisia			131,400		
		Mumbai		108,100	Nigeria			129,000		
		Ahmedabad		134,100	* Madagascar			98,900		
	Coimbatore		122,800	* Mozambique			67,800			
	Sri Lanka			55,900	Mauritius			66,900		
	* Nepal			146,500	* Mauritania			125,600		
	Pakistan			79,100	Morocco			180,300		
	* Bangladesh			127,400	South Africa			124,400		
* Bhutan			130,200	* Malawi			144,400			
* Maldives			190,300	Libya			47,800			
Oceania	* Samoa			67,400	Middle East	Iran	Tehran		77,200	
	* Vanuatu			99,300			Tabriz		74,200	
	Papua New Guinea			129,000		Jordan			137,600	
	Fiji			70,800		Syria			157,100	
Central and South America	Argentina			188,600	Lebanon			187,800		
	Uruguay			191,700	Ukraine			59,400		
	Ecuador			187,500	Serbia			122,000		
	El Salvador			163,800	Montenegro			113,200		
	Guatemala			163,800	Turkey			90,400		
	Costa Rica			176,100	Macedonia (Former Yugoslav Rep. of)			119,900		
	Colombia			173,800	Croatia			106,000		
	Jamaica			200,500						
	Chile			227,500						
	Dominican Republic			200,500						

Guidelines for Purchase of Air Tickets by the Participant

1. Arrival and Departure Dates:

Arriving in Japan on the day before the commencement of the program and departing on the day after the closing day of the program or the nearest days to be allowed by the flight schedule within two days before and/or after the program.

2. Method of Reimbursement:

During the training program in Japan, participants should present to AOTS their air tickets and submit official receipts of air ticket purchase for reimbursement. The sum of the following items (1) and (2) will be subsidized. In principle, an economy class air ticket purchased for a round-trip on the standard route according to the criteria of the International Air Transport Association (IATA) is defined as the standard airfare to be covered.

- (1) Actual round-trip airfare within the Standard Airfare Limits (the limits of AOTS's standard round-trip airfare amount) specified for the respective area (country).
- (2) The departure tax, airport tax and other taxes indispensable to the usual flight route defined by IATA subject to the submission of evidence.

[NOTE] A participant is not allowed to overstay at city(ies) of a third country between participant's home country and Japan by any reasons other than flight convenience. In such case, AOTS might not reimburse the International Travel Expenses to the participant.

3. Official Receipts:

AOTS will confirm the air ticket and official receipt and calculate the actual yen value of the air ticket with the exchange rate on the date of the ticket's issue.

- (1) AOTS can only accept the official receipts duly issued by the issuer in which a breakdown of the total airfare is explicitly described, such as airfare, tax (the departure tax, airport tax and other taxes indispensable to the usual flight route defined by IATA) and commission. It should also contain the name of the issuer's representative, address, telephone number and facsimile number.
- (2) Neither Invoice nor Calculation Sheet will be accepted as the receipt. However, an Invoice/Calculation Sheet using the letter-head of the air ticket issuer stating the word "Received" or "Paid" and including the signature of the air ticket issuer may be accepted.

*** If any participant fails to submit the official receipt duly issued by the relevant airline company or travel agent, the participant will not receive any subsidy towards his/her airfare and will be required to pay the full amount of the Participation Fee in cash to AOTS.**

Visa Acquisition Procedures:

1. Status of Residence:

The status required for your training in Japan is "Trainee."

2. Visa Acquisition:

A participant shall apply for and obtain a "Trainee" visa at a Japanese embassy or general consulate (hereinafter: diplomatic mission) with materials issued by AOTS such as a Guarantee Letter. It may be the case that the submitted materials are forwarded to the Consular Affairs Bureau (Tokyo) for checking.

3. Notes:

- a) **A citizen from a country or area participating in a visa waiver program with Japan** shall additionally apply for and obtain a "Trainee" visa.
- b) **A bearer of a visa other than a "Trainee" visa**, e.g., a "temporary visitor" visa or a "multiple" visa shall additionally apply for and obtain a "Trainee" visa. Please bear in mind that **the existing visa will be nullified in exchange for the "Trainee" visa.**
- c) **A bearer of an APEC business travel card (ABTC)** shall additionally apply for and obtain a "Trainee" visa. This is because the purpose of his or her travel is participation in an AOTS training program.
- d) **Please contact the local Japanese diplomatic mission for any inquiries prior to visa application.**

[Table 3] List of Target Countries and Regions (FY 2011)

Trainees should be citizens of the following countries/regions.

<i>Category 2*</i>	<i>Category 1*</i>		
Afghanistan	Albania	Macedonia, Former Yugoslav	Zimbabwe
Angola	Algeria	Malaysia	
Bangladesh	▪ Anguilla	Marshall Islands	
Benin	Antigua and Barbuda	Mauritius	
Bhutan	Argentina	▪ Mayotte	
Burkina Faso	Armenia	Mexico	
Burundi	Azerbaijan	Micronesia, Federated States	
Cambodia	Barbados	Moldova	
Central African Rep.	Belarus	Mongolia	
Chad	Belize	Montenegro	
Comoros	Bolivia	▪ Montserrat	
Congo, Dem. Rep.	Bosnia and Herzegovina	Morocco	
Djibouti	Botswana	Namibia	
Equatorial Guinea	Brazil	Nauru	
Eritrea	Cameroon	Nicaragua	
Ethiopia	Cape Verde	Nigeria	
Gambia	Chile	Niue	
Guinea	China	Pakistan	
Guinea-Bissau	Colombia	Palau	
Haiti	Congo, Rep.	Palestinian Administered Areas	
Kiribati	Cook Islands	Panama	
Laos	Costa Rica	Papua New Guinea	
Lesotho	Côte d'Ivoire	Paraguay	
Liberia	Croatia	Peru	
Madagascar	Cuba	Philippines	
Malawi	Dominica	Serbia (incl. Kosovo)	
Maldives	Dominican Republic	Seychelles	
Mali	Ecuador	South Africa	
Mauritania	Egypt	Sri Lanka	
Mozambique	El Salvador	▪ St. Helena	
Myanmar	Fiji	St. Kitts-Nevis	
Nepal	Gabon	St. Lucia	
Niger	Georgia	St. Vincent and Grenadines	
Rwanda	Ghana	Suriname	
Samoa	Grenada	Swaziland	
Sao Tome and Principe	Guatemala	Syria	
Senegal	Guyana	Tajikistan	
Sierra Leone	Honduras	Thailand	
Solomon Islands	India	▪ Tokelau	
Somalia	Indonesia	Tonga	
Sudan	Iran	Tunisia	
Tanzania	Iraq	Turkey	
Timor-Leste	Jamaica	Turkmenistan	
Togo	Jordan	Ukraine	
Tuvalu	Kazakhstan	Uruguay	
Uganda	Kenya	Uzbekistan	
Vanuatu	Kyrgyz Rep.	Venezuela	
Yemen	Lebanon	Viet Nam	
Zambia	Libya	▪ Wallis and Futuna	

▪ Territory.

- The list above is in alphabetical order, with the generic name for the country being used.
- These countries and regions are mainly developing countries as designated by the OECD/DAC (Organization for Economic Co-operation and Development / Development Assistance Committee).
- The following countries and regions have already been excluded from the list of target countries and regions:
China (Hong Kong, Macau), Singapore, Brunei, United Arab Emirates, Qatar, Kuwait, Bahamas, Greece, Puerto Rico, French Guiana, Israel, Cyprus, Guadeloupe, Saint Pierre and Miquelon, Martinique, Réunion, Bermuda, Cayman Islands, Falkland Islands, Republic of Korea, Aruba, French Polynesia, Gibraltar, Netherlands Antilles, New Caledonia, Northern Mariana Islands, British Virgin Islands, Malta, Slovenia, Bahrain, Estonia, Slovakia, Czech, Hungary, Bulgaria, Poland, Latvia, Lithuania, Romania, Saudi Arabia
- Antigua and Barbuda, Barbados, Oman and Trinidad and Tobago graduated from the List in 2011

Developing Countries (Category 1):

According to the DAC list of ODA recipients effective from 2009, these are developing countries and regions other than the "Least Developed Countries", and thus have been recognized by the Japanese government as target countries for ODA.

Least Developed Countries (Category 2):

These are the least developed countries on the DAC list.

9. HANDLING OF PERSONALLY IDENTIFIABLE INFORMATION:

AOTS handles personally identifiable information we have obtained from the applicant as follows:

- (1) Administrator of Personally Identifiable Information: General Manager, General Affairs Division,
The Association for Overseas Technical Scholarship (AOTS)

Department in charge: General Affairs Group, General Affairs Div., AOTS

Tel: 81-3-3888-8211 E-mail: kojinjoho@aots.or.jp

- (1) Use of Personally Identifiable Information

Personally identifiable information provided by the participant will only be used for the screening of the participants and the implementation of the training program. It will not be used for any other purposes or beyond the scope required by laws and regulations of Japan.

For AOTS's privacy policy, please visit <http://www.aots.or.jp/eng/privacypolicy.html>.

10. FURTHER INFORMATION:

AOTS HEAD OFFICE

Application from overseas countries:	30-1, Senju-azuma 1-chome, Adachi-ku, Tokyo 120-8534, Japan
Scholarship Processing Group	Tel: 81-3-3888-8214
Scholarship Administration Division	Fax: 81-3-3888-8242
	E-mail: shouhei@aots.or.jp

Application from host companies in Japan:	30-1, Senju-azuma 1-chome, Adachi-ku, Tokyo 120-8534, Japan
Scholarship Administration Group	Tel: 81-3-3888-8221
Scholarship Administration Division	Fax: 81-3-3888-8242

AOTS OVERSEAS OFFICES /

1. AOTS Bangkok Office / (General Manager) Mr. Kitaro Makino 14th Fl. Paso Tower 3, 88 Silom Rd., Suriyawong, Bangruk, Bangkok 10500 Tel: 66-2-238-5233~4, 268-0784 Fax:66-2-634-1200 E-mail: aots@loxinfo.co.th
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2. AOTS Jakarta Office / (General Manager) Mr. Hiroyuki Sato 6th Floor, Summitmas I, Jalan Jend.Sudirman, Kav.61-62, Jakarta 12190 Tel: 62-21-522-6776~7 Fax:62-21-522-6661 E-mail: aotsjkt@aots.or.id
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3. AOTS New Delhi Office / (General Manager) Mr. Yasumi Suzuki Flat No.1307, 13th Flr., Gopaldas Bhawan, 28 Barakhamba Road, New Delhi 110001 Tel: 91-11-23704122 Fax:91-11-23704123 E-mail: contact@aotsindia.com
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PRE-TRAINING REPORT

- The Program for Quality Problem Solving -
[PQPS]

Please fill in the following items using a personal computer or typewriter, or by handwriting in block letters. AOTS will duplicate and distribute it to lecturers and other participants as part of the reference materials for the group discussion and presentations to be held during the program.

The report form is available here in an MS-Word format (<http://www.aots.or.jp/jp/documents/ptr/11pqps-e.doc>).

1. Your name	
2. Your country	
3. Name of your company/ organization	
4. Outline of your organization (preferably attach an organization brochure)	
5. Your position and department (preferably attach an organizational chart, indicating your position)	
6. Your duties in detail	
7. Describe the most critical problems that you are now facing in your quality improvement activities, indicating their suspected causes from your viewpoint	

READINESS TEST

In order to participate in the PQPS2 course and correctly understand its content, a basic knowledge of statistics and the fundamental concepts of quality control are required. This readiness test is to estimate such knowledge and will be used as part of the reference materials for the screening. Please read the following sentences carefully and circle the right answer on the answer sheet. (If you cannot achieve a score of at least 70% on this test, it will be difficult for you to understand the content of the course or to benefit from its full effects.)

Question 1 : CONCEPT

Please answer "C" (Correct) if the statement is correct, or "F" (Fault) if it is incorrect.

- (1) "Quality assurance" means satisfying customers with "free repairs" or "change to a new one" when a customer complains.
- (2) In order to avoid customer complaints about defective products, it is necessary for a company to implement 100% inspection.
- (3) PDCA is a profound principle in TQM and stands for "Please Don't Change Anything."
- (4) In Total Quality Management (TQM), quality representing the function of a product as well as the quality of service and other areas must be considered.
- (5) TQM activities are executed at production sections and are thus not the concern of the sales or administrative sections.
- (6) In TQM, quality is the main focus—as such, delivery, cost, and other economic factors are of no concern.
- (7) As QC Circle activities are autonomous activities, they must be done outside of working hours and the company doesn't need to pay for them.
- (8) The person in charge of the "QC Program" should be the Quality Control Manager and not the Factory Manager.
- (9) Past data are not useful in the problem-solving process.
- (10) All factual information, even that which is not numerically expressible, like linguistic data, is potentially useful data in the problem-solving process.

Question 2: Ability to Draw Up Diagrams

The following table is a computation table used when drawing up a Pareto Diagram. Please select the correct numbers in cells (1) – (5) in the table.

Data Sheet for Pareto Diagram

Type of Defect	Number of Defects	Cumulative Total	Percentage of Overall Total	Cumulative Percentage
A	72	72	36	36
B	38	110	19	55
C	26	136	(1)	68
D	14	150	(2)	(3)
E	10	(4)	5	(5)
Others	40	200	20	100
Total	200	200	100	100

[a:7 b:13 c: 75 d:80 e: 160 f:165]

Question 3 : Basic Computational Ability (Control Chart)

Please calculate the following and select the right answer.

$$1) \frac{(13.42 + 13.62 + 13.66 + 13.48 + 13.52 + 13.57) \div 7}{=} =$$

$$2) \frac{2.523 + 0.005 \times \frac{30}{90}}{=} =$$

$$3) \frac{\frac{1}{100^2} (1917 - \frac{1}{7} \times 103^2)}{=} =$$

$$4) \frac{29.86 + 0.577 \times 27.44}{=} =$$

$$5) \frac{29.86 - 0.577 \times 27.44}{=} =$$

$$6) \frac{\sqrt{0.669 \times 10^{-2}}}{=} =$$

$$7) \frac{0.005 \times \sqrt{(302 - \frac{30^2}{90}) \div (90 - 1)}}{=} =$$

$$8) \frac{2312.02 - \frac{263.2^2}{30}}{=} =$$

$$9) \frac{\frac{0.0913}{\sqrt{2.88 \times 0.00840}}}{=} =$$

[a: 0.00906 b: 4.01×10^{-2} c: 0.082 d: 0.59 e: 2.52467 f: 2.88 g: 13.547 h: 14.03

i: 45.69 j: 50.00]

Question 4: Mean & Standard Deviation

Calculate the mean and standard deviation of the next set of data, and select the right answer.

1) 2 5 1 3 4

$$\bar{x} = \frac{\quad}{(1)} \quad s = \frac{\quad}{(2)}$$

2) 22 25 21 23 24

$$\bar{x} = \frac{\quad}{(3)} \quad s = \frac{\quad}{(4)}$$

3) 234562 234565 234561 234563 234564

$$\bar{x} = \frac{\quad}{(5)} \quad s = \frac{\quad}{(6)}$$

[a: 1.56 b: 1.57 c: 1.58 d:3.0 e: 23.0 f: 234563.0]

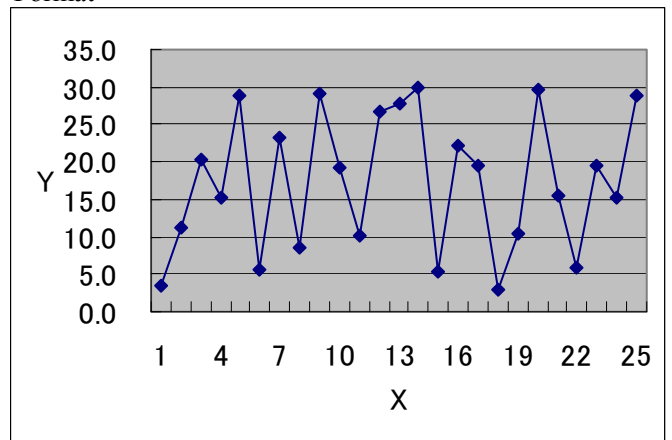
Question 5: Ability to Draw a Graph

Please use the data below to create a graph of the type shown below on the right as “Format”.

1) Data

X	Y	X	Y
1	35.6	14	29.8
2	29.2	15	31.6
3	20.2	16	22.2
4	39.4	17	31.2
5	29.2	18	28.8
6	31.4	19	31.4
7	23.2	20	29.6
8	32.0	21	39.0
9	29.0	22	19.4
10	32.6	23	34.2
11	32.2	24	32.6
12	26.8	25	28.2
13	27.8		

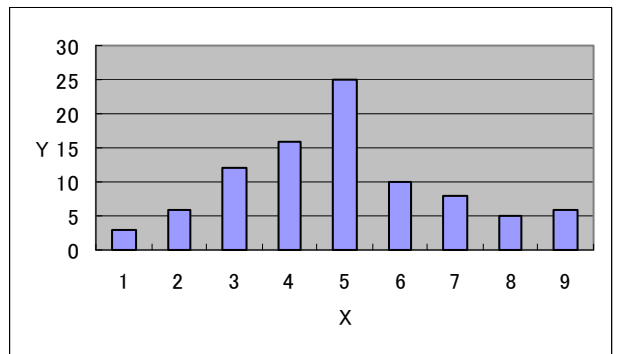
Format



2) Data

x	Y
1	1
2	4
3	9
4	14
5	22
6	19
7	10
8	5
9	6

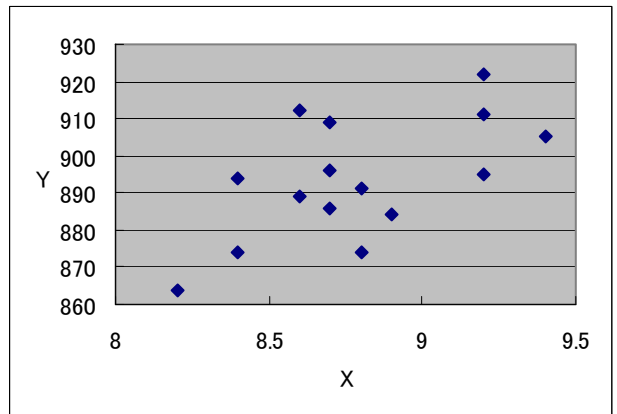
Format



3) Data

X	Y	X	Y
8.6	889	8.7	896
8.9	884	8.4	894
8.8	874	8.2	864
8.8	891	9.2	922
8.4	874	8.7	909
8.7	886	9.4	905
9.2	911		
8.6	912		
9.2	895		

Format



Question 6: English Check Sheet

Please complete the following sentences with suitable words.

<Populations and Samples>

In quality control, we try to discover facts by collecting data and then take necessary action based on those facts. The data is not collected as an end in itself, but as a means of finding out the facts behind the data.

For example, consider a sampling inspection. We take a sample from a lot, carry out measurements on it, and then decide whether we should accept the whole lot or not. Here our concern is not the sample itself, but the quality of the whole lot. As another example, consider the control of a manufacturing process using an \bar{x} -R control chart. Our purpose is not to determine the characteristics of the sample taken for drawing the \bar{x} -R chart, but to find out what state the process is in.

The totality of items under consideration is called the *population*. In the first example above, the population is the [(1)], and in the second it is the [(2)].

Some people may feel it difficult to regard a “process” as a “population” because while a “lot” is indeed a group of finite individual objects, a “process” itself is not a product at all, but is made up of the 5M’s (man, machine, material, method, and measurement).

When we turn our attention to product-making function, we will recognize that the “process” produces unmistakably a group of products. Moreover, the number of products is infinite unless the “process” stops producing them, and for this reason, a process is considered to be an infinite [(3)].

One or more items taken from a population intended to provide information on the population is called *sample*. Since a [(4)] is used for estimating the characteristics of the entire population, it should be chosen in such a way as to reflect the characteristics of the population. A commonly-used sampling method is to choose any member of the population with equal probability. This method is called *random sampling*, and a sample taken by random sampling is called a *random sample*.

We obtain [(5)] by measuring the characteristics of a sample. Using this data, we draw and inference about the population, and then take some remedial action. However, the measured value of a sample will vary according to the sample taken, making it difficult to decide what action is necessary. Statistical analysis will tell us how to interpret such data.

[a: data b: lot c: population d: process e: sample]

Readiness Test Answer Sheets

Question1-4, 6: Please circle the correct answer. Question5: Please make graphs on the sheet.

Question 1	(1)	F	C								
	(2)	F	C								
	(3)	F	C								
	(4)	F	C								
	(5)	F	C								
	(6)	F	C								
	(7)	F	C								
	(8)	F	C								
	(9)	F	C								
	(10)	F	C								
Question 2	(1)	a	b	c	d	e	f				
	(2)	a	b	c	d	e	f				
	(3)	a	b	c	d	e	f				
	(4)	a	b	c	d	e	f				
	(5)	a	b	c	d	e	f				
Question 3	(1)	a	b	c	d	e	f	g	h	i	j
	(2)	a	b	c	d	e	f	g	h	i	j
	(3)	a	b	c	d	e	f	g	h	i	j
	(4)	a	b	c	d	e	f	g	h	i	j
	(5)	a	b	c	d	e	f	g	h	i	j
	(6)	a	b	c	d	e	f	g	h	i	j
	(7)	a	b	c	d	e	f	g	h	i	j
	(8)	a	b	c	d	e	f	g	h	i	j
	(9)	a	b	c	d	e	f	g	h	i	j
Question 4	(1)	a	b	c	d	e	f				
	(2)	a	b	c	d	e	f				
	(3)	a	b	c	d	e	f				
	(4)	a	b	c	d	e	f				
	(5)	a	b	c	d	e	f				
	(6)	a	b	c	d	e	f				

Readiness Test Answer Sheets

Question 5	(1)									
	(2)									
	(3)									
Question 6	(1)	a	b	c	d	e				
	(2)	a	b	c	d	e				
	(3)	a	b	c	d	e				
	(4)	a	b	c	d	e				
	(5)	a	b	c	d	e				