	ADVANCED METHODS OF SURVEY SAMPLING			
Course Leader	Dr. Philippe Eichenberger, Statistical Methods Unit, Swiss Federal Statistical Office (SFSO), Neuchâtel			
OBJECTIVE(S)	The course will give an overview of some advanced methods in survey sampling			
TRAINING METHODS	The course will be based on lectures (approximately 2/3 of the time) and practical exercises (1/3). Most of the exercises will use computers and the R software. The course will be held in a room equipped with 20 PCs (one for each participant).			
TARGET GROUP	The course is meant for junior staff of methodology divisions and more experienced staff using sample survey techniques in the production of statistics.			
ENTRY QUALIFICATIONS	University degree, good basic knowledge of sampling techniques and survey methodology, sound knowledge of English			
EXPECTED OUTPUT	The course will give an overview of some advanced methods in survey sampling			
CONTENTS	 The course will give an overview of some advanced methods in survey sampling according to the following programme: A short introduction to the R software (2.5h) Dr. D. Kuonen New sampling algorithms (3h) Prof. Y. Tillé Calibration (3h) Dr. PA. Salamin Variance estimation (3h) Dr. JP. Renfer Handling of outliers in complex surveys (3h) Prof. B. Hulliger Practical exercises with the R software (3h) Analysis of complex survey data (3h) Dr. A. Renaud Analysis of compositional data from a complex survey (3h) Dr. M. Graf Practical exercises with the R software (3h) Afternoon reserved for the questions, examples and problems of the participants (3h) 			
REQUIRED READING	For example: Särndall C. E., Swensson B. and Wretman J. (1992). Model Assisted Survey Sampling. Springer. PART I: Principles of Estimation for Finite Populations and Important Sampling Designs (Chapters 1 to 5)			
REQUIRED PREPARATION	 Some familiarity with the R software is of advantage. Participants, who want to discuss an example or a special problem in the last afternoon, are asked to prepare in advance a small presentation (max. 15 minutes) and to send it one month before the start of the course to the course leader. It is possible that only some of the problems of the participants may be treated, depending on the time available. 			

PRACTICAL INFORMATION:

TIMING	DURATION:	TRAINING SITE	LANGUAGE	REGISTRATION
27.10 (9:30 AM) –	5 days	FSO building,	English	Deadline
31.10.08 (5 PM)		Neuchâtel, room 512		June 27, 2008

TRAINING FEE

No training fees.

TRAVEL / ACCOMODATION

EFTA will finance the expenses relating to this training course (plane, train and hotel) as well as the per diem for 2 people of each ??????? country. Further details concerning reimbursement are available from the EFTA secretary, Mrs. Erica Barley, mailto:Erica.Barley@ext.ec.europa.eu (????)

No funding is provided for participants from other European countries