

Annual Training Programs in 2014

Classification	Course Name (124 courses)	Level	Trainee	Period (days)	No. of trainees	Freq.	Syllabus
Common required training	Required course for new officials		KOSTAT new officials	4weeks	–	–	KOSTAT vision and mission, How to link statistics with policies, Public and personal values, How to write a document.
	Required course for officials who move into head offices		KOSTAT officials who move into head offices	15	–	–	Overview of KOSTAT, Survey planning and practice, Statistical package, Team project
	Required course for middle managers		KOSTAT 3rd or 4th grade official	3	–	–	Understanding privacy protection, Introduction to Six Sigma, Low carbon green growth, Course on creative and pragmatic values
Specialized training (for leaders)	Leadership development	Intermediate	KOSTAT 5th grade officials	3	20	2	Various types of leaders according to environment, Communication & persuasion skill, Coaching skill, Conflict solving, Team leadership development
	Creativity development	Intermediate	KOSTAT	3	30	2	Understanding of creativity, Awareness of the problem, idea divergent and convergent
	Consulting for Statistics development	Intermediate	KOSTAT	3	15	1	Understanding of consulting for statistics development, Case study, Practice
Specialized training (statistical expert)	Missing data processing & analysis	Advanced	KOSTAT	16weeks	10	1	Patterns of non response, parametric and no-parametric method, SAS practice, assignments and evaluation
	Population projection	Advanced	KOSTAT	16weeks	10	1	Theory and practice for population projection, EXCEL macro practice, Assignments and evaluations
	Survey planning	Advanced	KOSTAT	16weeks	10	1	Establishment sample design, Questionnaire design, Case study
	Statistical Classification	Advanced	KOSTAT	16weeks	10	1	Industrial Classification, Occupation Classification, Disease Classification
	Sample design and estimation	Advanced	KOSTAT	18weeks	10	1	Sample theory, Household sample design, Establishment sample design, SAS practice, assignment and evaluations
	Time series analysis in economy	Advanced	KOSTAT	16weeks	10	1	Time series regression model, time series model, model selection process, example of empirical analysis, assignments and evaluations
	National accounts	Advanced	KOSTAT	16weeks	10	1	Understanding of national accounts, method of national accounts forecasting
	Index theory	Advanced	KOSTAT	16weeks	10	1	Concept of Index, method to prepare production index, method to prepare price index
	Data masking & analysis	Advanced	KOSTAT	16weeks	10	1	Micro-aggregation, Rounding method, Grouping method, Noise, Data swapping, cell suppression

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Specialized training (statistics planning)	Survey methodology	Basic	ALL	3	40	2	Questionnaire design, sample design, result analysis, writing presentation data
	Questionnaire design	Intermediate	KOSTAT	3	30	1	Outline of questionnaire design, factors involved in questionnaire design and procedure, questionnaire design practice, group presentation and discussion
	Local Policy and Statistics	Basic	ALL	3	30	3	Understanding local statistics. Basic knowledge to make a Statistical chart and Application
	Basic Statistics and Application	Basic	KOSTAT	5	25	5	Basic statistics theory, basic statistics. Practical evaluation, basic index theory and practice evaluation, understanding seasonal adjustment.
	Sample theory and practice	Intermediate	ALL	3	20	2	Sample design and theory, sample design practice, understanding of opinion surveys, examples of sample design, policy education
	Introductory of probability theory	Basic	ALL	3	30	2	Understanding of probability, probability distribution, expected value and degree of dispersion
Specialized training (Data processing & analysis)	Multivariate data analysis	Intermediate	ALL	3	20	1	Understanding of multivariate data, multivariate data analysis, practice
	Basic missing data processing	Intermediate	ALL	3	20	2	Patterns of missing, hot deck method, SAS practice
	Time series analysis	Intermediate	ALL	5	20	1	Concept of time series analysis, use of time series data, trend analysis, seasonal adjustment method, ARIMA model theory, ARIMA model selection process, economic model of time series
	Editing methodology	Intermediate	ALL	3	20	1	The rule and way of data editing, case study using R
	Data analysis using EXCEL	Advanced	ALL	3	30	3	Review of EXCEL, statistical analysis, comprehensive analysis and practice
	Regression analysis	Intermediate	ALL	3	10	1	Regression theory, multiple regression, logistic regression, nonlinear regression, package practice
	Data analysis using R	Intermediate	ALL	3	30	3	Basic statistics, t-test, variance analysis, multivariate data analysis
	Massive data handling using SAS	Advanced	ALL	5	25	3	Practice macro, SQL and high-capacity data processing
	Data analysis using SAS	Advanced	ALL	5	25	3	Use of SAS, statistical analysis, comprehensive analysis and practice
	Basic SAS programming	Basic	ALL	3	30	3	Basics of SAS program, input and output of data, SAS operation and function, data summary, aggregation, conversion and formatting, basic application of programming, examples of using programming
	Data analysis using SPSS	Intermediate	ALL	5	30	3	Use of SPSS, statistical analysis, comprehensive analysis and practice
	Survey practice using SPSS	Intermediate	ALL	5	30	3	Survey practice, basic management of SPSS, analysis of SPSS survey data, comprehensive practice using examples
	Basic STATA	Advanced	ALL	3	25	1	Overview of STATA, programming, table and graph, descriptive statistics, examples of analysis

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Specialized training (Publication)	Statistical press release	Intermediate	KOSTAT	3	30	2	Press activities of KOSTAT, practice drawing up press releases, media response, writing creative press materials
	Media Training	Intermediate	KOSTAT	2	20	1	Introduction to Media Training Communication by Personality Types Interview / Presentation Practice
	Use of tabulation and graph	Basic	ALL	3	30	3	The rule of tabulation and graph, case study
	Writing survey reports	Intermediate	ALL	2	30	2	How to write survey reports including the outline, results and analysis, practice writing reports
Specialized training (economic)	Understanding of economic statistics	Intermediate	ALL	3	30	2	Definition and history of economic statistics, use and preparation method of economic statistics, economic indicators in production, consumption and construction investment, economic indicators in facility investment, import and export, economic indicators related to prices, interest rate, stock market, points to keep in mind when using economic statistics
	Seasonal adjustment	Intermediate	KOSTAT	2	30	1	AR(p), MA(q) model ARIMA(p,q), ARIMA(p,d,q) model ARIMA(p,d,q)(P,D,Q) model RegARIMA model
	Basic national accounts	Intermediate	ALL	4	15	1	Understanding national accounts, national income statistics, use of national income statistics, Money flow table, chain weighted method, Input-output table, international balance of payments
	Understanding of financial statement	Intermediate	ALL	3	30	4	Introduction to financial statements, questionnaire and financial statement, application of survey items
	Basic index theory	Intermediate	ALL	3	15	1	Concept of Index, method to prepare production index, method to prepare price index, method to prepare trade index, performing economic analysis using index
Specialized training (sociology)	Understanding of agriculture statistics	Intermediate	ALL	3	20	1	Outline of agriculture statistics and future directions, crop production survey(cultivation area, production volume), remote sensing survey, livestock statistics survey, price index of commodities received and paid by farmers, management of agriculture statistical samples, presentation on how to improve agriculture statistics
	Understanding of social statistics	Intermediate	ALL	3	25	2	Social changes and statistical challenges, issues in employment statistics, social indicators, household income and expenditure, group discussion and presentation
	Understanding of Fishery statistics	Intermediate	ALL	3	20	1	Outline of fishery statistics and future directions, management of fisheries statistical samples, fishery production survey, presentation on how to improve fisheries statistics
	Understanding of population statistics	Intermediate	ALL	3	25	1	Concept of population statistics, population census, population vital statistics, Internal migration statistics, cause of death statistics & life tables, population projection

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Specialized training (IT)	Use of national statistical information	Basic	ALL	3	20	1	Use of statistical information, understanding national statistics integrated DB and database, statistical DB system, KOSIS search system, statistical navigator, publication editing system, statistical meta DB system
Specialized training (Field survey)	Psychology persuasion for	Basic	KOSTAT	3	20	3	Conflict management and communication, relationship management
	Field survey practice	Intermediate	KOSTAT	3	20	1	Summary of theories on interview techniques, psychological understanding of survey interview process and role-playing, identifying personal preferences through questionnaires, group discussion
Specialized training (Policy)	Understanding National Statistics	Basic	ALL	3	20	2	Introduction to National Statistics Survey method. Population Statistics, Social Statistics, Economic Statistics
	Industrial classification	Basic	ALL	3	30	2	Overview of statistical classification, industrial classification(manufacturing, Agriculture forestry, fishing and mining / electricity, gas, stream and water supply / wholesale and retail trade, transportation, education and related service / information and communications, financial and insurance activities, accommodation and food service activities, real estate activities, business facilities management and business
	Industrial classification (Cyber + Class)	Basic	KOSTAT	1	80	1	
	Introduction to 3.0 Policy of Government	Basic	KOSTAT	2	20	2	Understanding 3.0 Policy Public Information, Opening Collaborative Administration
	Occupational classification	Basic	KOSTAT	3	30	1	Composition of standard statistical classification, basic management principles and current status, outline of occupational classification, general classification of occupation, vocational information theory, case studies of occupational classification
	Statistics Act	Basic	ALL	2	20	2	Outline of statistical quality management, method to write self-evaluation of quality, presentation of evaluation results, feedback and discussion
	Statistics and policy	Intermediate	ALL	3	20	2	Statistics-based policy management system, policy process and statistics, policy process and data analysis, case studies of statistics and policy

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Specialized training (Administration)	Writing reports	Basic	ALL	5	40	5	Understanding the concept of a report, preparing a basic / advanced document using HWP, PowerPoint diagrams, using Excel and PowerPoint at the same time
	Social Media and SNS	Basic	ALL	3	30	1	Introduction to Social Media, such as Facebook, YouTube, Internet, SNS, Twitter etc
	Access	Intermediate	ALL	5	30	3	DBMS and Access, basic structure of Access, how to create a table, handling queries and making forms, creating applications using Access, examples of how access is used for work
	Intermediate Excel	Intermediate	ALL	5	40	4	Basics of Excel and charts, Advanced use of worksheets, Data operation, data function processing, basic macro and practice
	Basic Excel	Basic	ALL	3	45	6	Basics of Excel, How to make a worksheet, Entering math functions and editing entities, creating a chart and editing entities
	Statistics administrative management	Basic	KOSTAT	2	30	1	Statistical law and system, statistics quality control, budget and practical accounting, understanding of national statistics, outline of the press activities of KOSTAT, practical administrative management, statistics-based policy management system
	PowerPoint	Basic	ALL	3	45	8	Overview of PowerPoint, preparing and editing slides, using multimedia data, advanced use of slides, planning presentation using PowerPoint, make presentation
	Prezi	Intermediate	ALL	2	30	2	Understanding of Prezi Use of bubble menu Story consists Prezi case of Various Type Presentation using prezi
	Advanced Excel (VB Excel Macro)	Advanced	ALL	5	30	2	Basics of Excel to expand practice uses, concept of macro and VBA, creation and execution of macro, handling Excel entities, practice programming, examples of statistical DB management using Excel
Specialized training (self-improvement)	Preparation for social survey analyst (2nd grade)	Intermediate	Those who passed the written test (2nd grade)	4	40	2	Statistical analysis using SPSS, survey methodology, solving sample questions from previous exams

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e-Learning	Understanding National Statistics(M)	Basic	ALL	1	30	9	Introduction to National Statistics Survey method Population Statistics, Social Statistics, Economic Statistics
	Industrial classification(C)	Basic	KOSTAT	2	30	7	(Introduction to Industrial classification) overview and revisions in major groups (detailed classification method for each major groups) from major group 1[managers] to major group A(armed forces)
	Time series analysis And Application(C)	Advanced	ALL	3	20	3	Time series regression model, time series model, model selection process, example of empirical analysis, assignments and evaluations
	Time series analysis And Application(M)	Advanced	ALL	1	30	9	
	Statistical analysis using EXCEL(C)	Intermediate	ALL	2	70	7	(Basic Excel) statistical analysis using excel, collection of data and summarization using charts, descriptive statistics, creating charts and graphs for qualitative/quantitative data (Performing statistical analysis) use of Excel functions, statistical functions, statistical inference, chi-square test, time series analysis
	Statistical analysis using EXCEL(M)	Intermediate	ALL	1	50	9	
	SAS examples(C)	Advanced	ALL	3	30	2	(Basic SAS programming) examples, creating dataset, input, arithmetic statement, functions, IF statement, other commands, explanation of KOSTAT examples (Advanced SAS programming) dataset management, basic macro, sort and transpose, proc, program examples
	Basic survey method(C)	Basic	ALL	2	50	7	Introduction to survey method, method of data collection, questionnaire design and survey management, characteristics of enumerators and respondents, training enumerators
	Basic survey method(M)	Basic	ALL	2	50	9	Introduction to survey method, method of data collection, questionnaire design and survey management, characteristics of enumerators and respondents, training enumerators

* (C) Cyber-learning, (M) Mobile-learning

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e-Learning	Local Policy and Statistics(C)	Basic	ALL	3	70	7	Understanding of Local statistics Basic Knowledge to make a Statistical chart and Application Importance of national Statistics
	Local Policy and Statistics(M)	Basic	ALL	2	30	9	Preparation situation of Local Statistics Major economic indicators Comprehensive Practice using example
	Occupational classification(C)	Basic	KOSTAT	2	30	7	(Introduction to occupational classification) overview and revisions in major groups (detailed classification method for each major groups) from major group 1[managers] to major group A(armed forces)
	Statistical essential knowledge(C)	Basic	ALL	2	30	5	Representative value, measure of dispersion, ratio, etc
	Statistical thinking(C)	Basic	ALL	3	50	7	Introduction to statistics Collection of data and summarization using charts,
	Statistical thinking(M)	Basic	ALL	2	30	9	Understanding of Index, Distribution Statistical Packages
	Introduction to survey of KOSTAT(M)	Basics	ALL	1	3	9	The survey of household finances and living conditions Mining and manufacturing survey Farm household sales and purchase price Current Household Survey Farm & Fishery household economy
	Basic Statistics(M)			2	50	9	Basic Statistics theory Dispersion, Standard deviation, Estimation Statistical hypothesis test Regression analysis Comprehensive Practice using example
	Basic sample theory(C)	Intermediate	ALL	2	50	5	(Basic sampling theory) concept, probability, expected value, probability & non-probability sampling (Advanced sampling theory) stratified random sampling, systematic sampling, cluster sampling, sampling with probability proportionate to size (Application of program) sampling and projection program, examples
	Understanding of regression analysis(C)	Advanced	ALL	2	30	3	(Introduction to regression analysis) definition of regression analysis, simple linear regression, variable transformation, regression analysis using a dummy variable, comprehensive examples (Advanced regression analysis) multiple regression analysis, selection of variables, quantitative economic model, multicollinearity, heteroscedasticity
	Statistical analysis using SPSS(C)	Advanced	ALL	4	50	4	Introduction to SPSS, SPSS basic statistics, SPSS statistical analysis, advanced use of SPSS
	Statistical analysis using SPSS(M)	Advanced	ALL	2	50	9	
	Understanding of financial statement(C)	Intermediate	ALL	3	50	5	Introduction to financial statement, questionnaire and financial statements, application of survey item

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Classification	Course Name	Level	Training Target	Period (days)	No. of trainees	Freq.	Syllabus
e-Learning	The survey of household finances and living conditions(C)	Basic	KOSTAT	1	30	5	Outline of Survey Field survey Household member, Asset, debt Income, Expenditure, etc
	The survey of household finances and living conditions(M)	Basic	KOSTAT	1	30	9	
	Current Household Survey(C)	Basic	KOSTAT	1	30	7	Introduction to Current Household Survey, how to make housekeeping books, how to make electronic housekeeping books, how to record data, how enumerators can manage electronic housekeeping books
	Current Livestock Survey(C)	Basic	KOSTAT	1	30	7	Introduction to Current Livestock Survey and method of filling out questionnaire
	Economically Active Population Survey(C)	Basic	KOSTAT	1	30	7	Introduction to Economically Active Population Survey, design and Use of questionnaire, editing method, data processing schedule
	Mining and manufacturing survey (production, shipment, inventory)(C)	Basic	KOSTAT	1	30	7	(Introduction to Mining and Manufacturing Survey) need for Current Mining and Manufacturing Survey, survey overview (Questionnaire design method) how to design questionnaire, review of surveys and data input (Management of establishments) how to manage establishments to be surveyed (Practice IPS: how to use IPS program)
	Mining and Manufacturing survey (producing capability, operation rate)(C)	Basic	KOSTAT	1	30	5	(Survey Overview) overview and terminology, selection of survey subjects and management of establishments (Questionnaire design method) how to design questionnaire, review of surveys and data input (Calculation of production capability) definition of production capability and method of calculation
	Farm Household Economy Survey(C)	Basic	KOSTAT	1	30	7	Overview of Farm Household Economy, survey Theory and Methods, how to fill out farmhouse assets log and daily log, food grain consumption, understanding of crops: rice, barley, garlic, onion, chili, sesame, soybean
	Farm household sales and purchase price survey(C)	Basic	KOSTAT	1	30	5	Introduction to farm household sales and purchase price survey, method to field survey
	Cost of Crop production survey(C)	Basic	KOSTAT	1	30	7	Understanding of Cost of Crop production survey Paddy rice, garlic, onion, pepper, bean, etc
	Cultivated Area Statistics Survey(C)	Basic	KOSTAT	1	30	7	Overview, management and maintenance of survey district, survey on area of cultivated land, survey on crop cultivation area
	Crop Production Survey(C)	Basic	KOSTAT	1	30	7	Introduction to Crop Production Survey, method of Crop Production Survey: paddy rice production, barley · upland rice production, garlic · onion · potato, chili · bean · sesame, radish for kimchi · cabbage, apple · pear production
Price of rice survey(C)	Basic	KOSTAT	1	30	5	Introduction to Price of rice survey, method to field survey	

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e-Learning	Current Service Industry Survey(C)	Basic	KOSTAT	1	30	7	Introduction to Current Service Industry Survey, questionnaire Design Method, method of Data Input, service Industry Activity Index
	Current Service Industry Survey(M)	Basic	KOSTAT	1	30	9	Introduction to Consumer Price Survey, survey Methods, how to Use Systems: price system, PDA
	Consumer Price Survey(C)	Basic	KOSTAT	1	30	4	
	Food Grain Consumption Survey(C)	Basic	KOSTAT	1	30	5	Introduction to Food Grain Consumption Survey Method to field survey Computer management System
	Fishery Household Economy Survey(C)	Basic	KOSTAT	1	30	7	Introduction to Fishery Household Economy, understanding of fishery Household Economy, how to fill out daily fishery household log, how to fill out asset log
	Current Fish farming survey(C)	Basic	KOSTAT	1	30	5	Understanding of Current Fish farming survey
	Current Fishery Production Survey(C)	Basic	KOSTAT	1	30	7	Overview of Current Fishery Production Survey, survey based on cooperative and non-cooperatives data, survey on inland-water fisheries
	Current Population Survey(C)	Basic	KOSTAT	1	30	7	Introduction to Current Population Survey, how to make housekeeping books, how to record data and check errors, how to record data, how enumerators can manage electronic housekeeping books, understanding of Current Population Survey and job overview, overview of job descriptions for different agencies entering data
	Current of e-commerce and Cyber shopping Survey(C)	Basic	KOSTAT	1	30	5	Definition of e-commerce and Cyber shopping Questionnaire completion method content review and input of materials
	Regional employment survey(manager)(C)	Basic	KOSTAT	1	30	5	Outline of survey Case study on Field survey Industrial Classification Occupational Classification
	Regional employment survey(Investigator)(C)	Basic	KOSTAT	1	30	5	Outline of survey Case study on Field survey
	Cost of Livestock production survey(C)	Basic	KOSTAT	1	30	7	Understanding of Cost of Livestock production survey Beef cattle, milk cattle, fed pigs, layer chicken, etc
	Preparation for social survey analyst(C)	Intermediate	KOSTAT Other Public Servant	2	50	5	Definition of research and data collection, design of questionnaire and samples, measurement and scale, social statistic

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Classification	Course Name	Level	Training Target	Period (days)	No. of trainees	Freq.	Syllabus
Others	Statistical academy for high school student		High school student	2	30	2	Connection between statistics and economics, enhancing statistical mind, group discussion
	Statistical workshop for university students		University students	3	30	3	Understanding national statistics, explanation of statistical indicators, use of statistical data
	Writing statistical thesis for graduate student		Graduate student	3	20	3	Collecting the statistical data, population and sample, analysis of variance(One-way ANOVA, ANCOVA, MANNOVA), regression analysis, case study
	Love Sharing Statistical camp		Elementary school students(5th or 6th grade)	3	30	3	Importance of Statistical thinking Statistics and Creativity Statistical data collection Make a Statistics Poster
	Statistical camp for children		Elementary school students(5th or 6th grade)	3	30	4	Quizzes to teach how social and economics are used, experiencing statistics using computers
	Statistical training for middle school teacher		middle school teacher	5	20	1	Introduction to social and economics statistics, survey planning, finding of statistical information, statistical thinking, teaching statistical methods
	Statistical academy for middle school student		Middle school students	3	30	2	Use of statistics, statistical decision-making theory, ways to solve statistical problem, understanding social problems by looking at statistics
	Statistical training for elementary school teacher		elementary school teacher	5	15	1	Introduction of social and economics statistics, survey planning, finding of statistical information, statistical thinking, teaching method of statistics
	Statistics Seminar		ALL	1	15	5	Current topics of Statistics
	Field Survey Training (Cyber + Class)		KOSTAT	3	40	2	Introduction to survey method, data collection method questionnaire design and survey management, characteristics of enumerators and respondents, training enumerators
	Statistical Class for children		Elementary school students	1	30	5	Quizzes to teach how social and economics are used, experiencing statistics using computers
	Statistics		ALL	15	20	1	basic statistics theory, basic statistics practice evaluation, basic index theory practice evaluation, understanding of seasonal adjustment
	Field Survey Training		unemployed	5	30	1	Introduction to survey method, data collection method, questionnaire design and survey management, characteristics of enumerators and respondents, training enumerators
	Custom-tailored course		ALL	15	15	20	Search for a creative solution Problem solving method Action learning Theoretical learning
KOICA] Statistical training		Foreign government officials or engineers	21	15	4	Introduction of statistics korea and statistical system, class focusing on practical exercise and discussions, country report, hands-on experience of Korean culture, visit to major industrial sites	

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Others	Designing future		KOSTAT	5	30	1	Retirement Preparation
	Music and life		KOSTAT	2	30	1	Cultural studies on Music
	Healing Camp		KOSTAT	3	30	3	Recreation program for Staffs
	Leadership for Personal Capacity(M)	Basic	ALL	1	50	9	Planing / Pushing ahead Strategy Reasoning Skills / Observation
	Leadership development(M)	Basic	ALL	1	50	9	Self-coaching Image making / Image Training Communication Skills
	Problem Solving Ability(M)	Basic	ALL	1	50	9	Useful-tips for solving problems in workplace
	Integrity(C)	Basic	ALL	1	100	7	Preventing corruption and national development, corruption reporting system, system which prevents corrupt officials from reemploying, codes of conduct for government officials, corruption impact assessment system, ethical management
	Psychology for Persuasion(M)	Basic	ALL	1	50	9	Greeting / Asking Skills Mind control Authority / Reciprocity / Consistency law
	Tips for worklife(M)	Basic	ALL	1	50	9	Useful-tips for leading a Successful worklife
	Statistics Act(C)	Basic	ALL	1	50	7	Outline of statistical quality management, method to write self-evaluation of quality, presentation of evaluation results, feedback and discussion
	Self-Improvement(M)	Basic	ALL	1	50	9	Self coaching Image making Skills Etiquette training in workplace
Negotiation Skills(M)	Basic	ALL	1	50	9	Useful-tips for upgrading our Negotiation Skills	

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