
Global Certificate Course in Ethnomathematics Instruction

Cross-Cultural Data Collection Methods

Absolute Scale refers to a scaling method where the data is measured on a scale with a true zero point, allowing for the comparison of absolute magnitudes, in Cross-Cultural Data Collection Methods, this is crucial for accurate statistical analysis.

Accelerated Data Collection is a method used to speed up the data collection process, often by using technology such as mobile devices or online surveys, to gather data quickly and efficiently in diverse cultural settings.

Action Research is an approach to research that involves actively participating in the research setting and working with participants to identify and address problems, often used in Cross-Cultural Data Collection Methods to understand community needs and develop contextual solutions.

Adaptation Theory refers to the process of adjusting to a new cultural environment, in Cross-Cultural Data Collection Methods, this theory is used to understand how individuals adapt to new cultural contexts and how this impacts data collection.

Analytical Hierarchy Process is a decision-making method used to evaluate and prioritize different options, in Cross-Cultural Data Collection Methods, this method is used to evaluate and compare different data collection methods.

Anthropological Research is a type of research that focuses on understanding human cultures and societies, in Cross-Cultural Data Collection Methods, anthropological research is used to understand the cultural context of the data collection process.

Area Sampling is a method of sampling where a geographic area is selected and all individuals within that area are included in the sample, in Cross-Cultural Data Collection Methods, this method is used to collect data from specific regions.

Assessment Center is a method of evaluating an individual's performance and potential, often used in Cross-Cultural Data Collection Methods to assess the effectiveness of data collection methods.

Back-Translation is a method of translation where a text is translated from one language to another and then back into the original language to check for accuracy, in Cross-Cultural Data Collection Methods, this method is used to ensure linguistic equivalence.

Behavioral Observation is a method of data collection where an observer records the behavior of individuals in a naturalistic setting, in Cross-Cultural Data Collection Methods, this method is used to understand cultural practices and norms.

Bias Reduction is a method used to minimize biases in data collection, in Cross-Cultural Data Collection Methods, this method is used to ensure objectivity and accuracy in data collection.

Case Study is a detailed examination of a single case or a small number of cases, in Cross-Cultural Data Collection Methods, case studies are used to gain an in-depth understanding of cultural context.

Census Data is data collected from a census, which is a comprehensive count of a population, in Cross-

Cultural Data Collection Methods, census data is used to understand demographic trends.

Cluster Sampling is a method of sampling where the population is divided into clusters and a sample of clusters is selected, in Cross-Cultural Data Collection Methods, this method is used to collect data from specific groups.

Coding Scheme is a system used to categorize and code data, in Cross-Cultural Data Collection Methods, coding schemes are used to analyze and interpret data.

Comparative Analysis is a method of analysis where two or more groups are compared, in Cross-Cultural Data Collection Methods, comparative analysis is used to understand cultural differences and similarities.

Concept Mapping is a visual method of representing relationships between concepts, in Cross-Cultural Data Collection Methods, concept mapping is used to visualize and organize data.

Content Analysis is a method of analysis where the content of a text or other media is analyzed, in Cross-Cultural Data Collection Methods, content analysis is used to understand cultural messages and themes.

Contextual Understanding is the ability to understand the context in which data is collected, in Cross-Cultural Data Collection Methods, contextual understanding is crucial for accurate and meaningful data interpretation.

Contrast Effect is a phenomenon where the perception of a stimulus is influenced by the presence of another stimulus, in Cross-Cultural Data Collection Methods, contrast effects can impact data collection and analysis.

Control Group is a group of participants who do not receive a treatment or intervention, in Cross-Cultural Data Collection Methods, control groups are used to compare and evaluate the effectiveness of data collection methods.

Convenience Sampling is a method of sampling where participants are selected based on ease of access, in Cross-Cultural Data Collection Methods, convenience sampling is used to collect data quickly and efficiently.

Convergent Validity is the degree to which two or more measures of a construct are highly correlated, in Cross-Cultural Data Collection Methods, convergent validity is used to evaluate the accuracy of data collection methods.

Cultural Adaptation refers to the process of adjusting to a new cultural environment, in Cross-Cultural Data Collection Methods, cultural adaptation is crucial for effective data collection.

Cultural Competence is the ability to understand and respect cultural differences, in Cross-Cultural Data Collection Methods, cultural competence is essential for accurate and meaningful data collection.

Cultural Equivalence refers to the degree to which a measure is equally valid and reliable across different cultures, in Cross-Cultural Data Collection Methods, cultural equivalence is crucial for comparing data across cultures.

Cultural Relativism is the idea that cultures should be understood and evaluated within their own context, in Cross-Cultural Data Collection Methods, cultural relativism is used to avoid ethnocentrism and bias.

Data Cleaning is the process of checking and correcting data for errors and inconsistencies, in Cross-Cultural Data Collection Methods, data cleaning is crucial for accurate and reliable data analysis.

Data Collection Instrument is a tool or method used to collect data, in Cross-Cultural Data Collection

Methods, data collection instruments can include surveys, interviews, and observations.

Data Imputation is the process of replacing missing data with estimated values, in Cross-Cultural Data Collection Methods, data imputation is used to handle missing data and maintain data integrity.

Data Quality Control is the process of ensuring that data is accurate, complete, and consistent, in Cross-Cultural Data Collection Methods, data quality control is crucial for reliable and valid data analysis.

Data Reduction is the process of simplifying and summarizing data, in Cross-Cultural Data Collection Methods, data reduction is used to identify patterns and trends in data.

Data Saturation is the point at which no new information is being collected, in Cross-Cultural Data Collection Methods, data saturation is used to determine when to stop data collection.

Data Transformation is the process of converting data from one format to another, in Cross-Cultural Data Collection Methods, data transformation is used to prepare data for analysis.

Debriefing is a process of informing participants about the purpose and results of a study, in Cross-Cultural Data Collection Methods, debriefing is used to respect participants' rights and autonomy.

Delphi Technique is a method of gathering expert opinions through a series of rounds of questionnaires, in Cross-Cultural Data Collection Methods, the Delphi technique is used to gather and consensus expert opinions.

Descriptive Statistics is a branch of statistics that deals with summarizing and describing data, in Cross-Cultural Data Collection Methods, descriptive statistics is used to summarize and describe data.

Developmental Research is a type of research that focuses on understanding developmental processes and changes over time, in Cross-Cultural Data Collection Methods, developmental research is used to understand cultural development and change.

Discourse Analysis is a method of analysis that focuses on the language and communication used in a particular context, in Cross-Cultural Data Collection Methods, discourse analysis is used to understand cultural discourse and power dynamics.

Double-Blind Study is a type of study where both the researcher and the participant are unaware of the treatment or intervention, in Cross-Cultural Data Collection Methods, double-blind studies are used to reduce biases and increase objectivity.

Ecological Validity is the degree to which a study's results can be generalized to real-world settings, in Cross-Cultural Data Collection Methods, ecological validity is crucial for applying research findings to practice.

Emic Perspective is a perspective that focuses on understanding a culture from within, in Cross-Cultural Data Collection Methods, emic perspectives are used to gain a deeper understanding of cultural context and meaning.

Empirical Research is a type of research that relies on observation and experience to develop and test theories, in Cross-Cultural Data Collection Methods, empirical research is used to develop and test theories about cultural phenomena.

Environmental Factor is a factor that is external to the individual and can influence behavior or outcomes, in Cross-Cultural Data Collection Methods, environmental factors can impact data collection and analysis.

Epistemology is the study of knowledge and how it is acquired, in Cross-Cultural Data Collection Methods,

epistemology is used to understand the nature of knowledge and truth.

Error of Measurement is the difference between the true score and the observed score, in Cross-Cultural Data Collection Methods, error of measurement can impact data accuracy and reliability.

Etic Perspective is a perspective that focuses on understanding a culture from an outside perspective, in Cross-Cultural Data Collection Methods, etic perspectives are used to compare and contrast different cultures.

Ethnographic Research is a type of research that involves immersing oneself in a culture to gain a deeper understanding of it, in Cross-Cultural Data Collection Methods, ethnographic research is used to gain a rich and detailed understanding of cultural context.

Ethnography is the study of cultures and societies, in Cross-Cultural Data Collection Methods, ethnography is used to understand the cultural context of the data collection process.

Experimental Design is a type of research design that involves manipulating one or more independent variables to examine their effect on a dependent variable, in Cross-Cultural Data Collection Methods, experimental designs are used to test causal relationships between variables.

Expert Interview is a type of interview where an expert is asked to provide information and insights, in Cross-Cultural Data Collection Methods, expert interviews are used to gather and validate information.

Exploratory Data Analysis is a type of data analysis that involves exploring and summarizing data to understand its underlying structure and patterns, in Cross-Cultural Data Collection Methods, exploratory data analysis is used to identify and explore relationships in data.

Ex Post Facto Research is a type of research that involves looking back at events or outcomes that have already occurred, in Cross-Cultural Data Collection Methods, ex post facto research is used to understand and analyze past events and trends.

Factor Analysis is a statistical method used to identify underlying factors or dimensions in a set of data, in Cross-Cultural Data Collection Methods, factor analysis is used to reduce and summarize data.

Field Experiment is a type of experiment that takes place in a naturalistic setting, in Cross-Cultural Data Collection Methods, field experiments are used to test and evaluate data collection methods in real-world contexts.

Field Note is a type of note that is taken during data collection to record observations and insights, in Cross-Cultural Data Collection Methods, field notes are used to document and reflect on data collection experiences.

Field Study is a type of study that involves collecting data in a naturalistic setting, in Cross-Cultural Data Collection Methods, field studies are used to gather and analyze data in real-world contexts.

Focus Group is a type of group interview where a small number of participants are asked to discuss and provide feedback on a particular topic, in Cross-Cultural Data Collection Methods, focus groups are used to gather and validate information.

Free Listing is a method of data collection where participants are asked to list all the items they can think of in a particular category, in Cross-Cultural Data Collection Methods, free listing is used to gather and analyze data on cultural knowledge and practices.

Functional Equivalence is the degree to which a measure is equally valid and reliable across different

cultures, in Cross-Cultural Data Collection Methods, functional equivalence is crucial for comparing data across cultures.

Generalizability is the degree to which the results of a study can be generalized to other populations or contexts, in Cross-Cultural Data Collection Methods, generalizability is crucial for applying research findings to practice.

Grounded Theory is a type of research that involves developing theory through the analysis of data, in Cross-Cultural Data Collection Methods, grounded theory is used to develop and test theories about cultural phenomena.

Holistic Approach is an approach that considers the whole system or context, in Cross-Cultural Data Collection Methods, holistic approaches are used to understand and analyze complex cultural systems.

Hypothesis Testing is a statistical method used to test a hypothesis about a population, in Cross-Cultural Data Collection Methods, hypothesis testing is used to test and evaluate theories about cultural phenomena.

In-Depth Interview is a type of interview where a single participant is asked to provide detailed and in-depth information, in Cross-Cultural Data Collection Methods, in-depth interviews are used to gather and analyze detailed information about cultural experiences and practices.

Informed Consent is a process of informing participants about the purpose and risks of a study, in Cross-Cultural Data Collection Methods, informed consent is used to respect participants' rights and autonomy.

Institutional Review Board is a committee that reviews and approves research studies to ensure that they meet ethical standards, in Cross-Cultural Data Collection Methods, institutional review boards are used to review and approve research protocols.

Inter-Rater Reliability is the degree to which two or more raters agree on their ratings or evaluations, in Cross-Cultural Data Collection Methods, inter-rater reliability is used to evaluate the consistency of data collection methods.

Internal Consistency is the degree to which a measure is consistent within itself, in Cross-Cultural Data Collection Methods, internal consistency is used to evaluate the reliability of data collection methods.

International Test Commission is an organization that promotes best practices in testing and assessment across cultures, in Cross-Cultural Data Collection Methods, the International Test Commission is used to develop and promote culturally sensitive testing and assessment methods.

Interview Protocol is a set of guidelines for conducting an interview, in Cross-Cultural Data Collection Methods, interview protocols are used to standardize and structure interviews.

Item Response Theory is a statistical method used to analyze and model the relationship between items and responses, in Cross-Cultural Data Collection Methods, item response theory is used to develop and evaluate culturally sensitive measures.

Kinship Study is a type of study that examines the relationships between family members, in Cross-Cultural Data Collection Methods, kinship studies are used to understand and analyze cultural practices and norms related to family and kinship.

Life History is a type of data collection where a participant's life story is recorded and analyzed, in Cross-Cultural Data Collection Methods, life histories are used to gather and analyze detailed information about

cultural experiences and practices.

Likert Scale is a type of rating scale where participants are asked to rate their attitudes or opinions on a scale, in Cross-Cultural Data Collection Methods, Likert scales are used to measure and analyze attitudes and opinions across cultures.

Longitudinal Study is a type of study that involves collecting data over a long period of time, in Cross-Cultural Data Collection Methods, longitudinal studies are used to examine and analyze cultural change and development over time.

Member Checking is a process of checking the accuracy of data with the participants, in Cross-Cultural Data Collection Methods, member checking is used to ensure the validity and reliability of data.

Meta-Analysis is a statistical method used to combine the results of multiple studies, in Cross-Cultural Data Collection Methods, meta-analysis is used to synthesize and evaluate the results of multiple studies on cultural phenomena.

Methodology is the study of methods and procedures used in research, in Cross-Cultural Data Collection Methods, methodology is crucial for developing and evaluating data collection methods.

Mixed Methods Research is a type of research that combines both qualitative and quantitative methods, in Cross-Cultural Data Collection Methods, mixed methods research is used to gather and analyze both quantitative and qualitative data.

Multicultural Competence is the ability to understand and respect cultural differences, in Cross-Cultural Data Collection Methods, multicultural competence is essential for effective and culturally sensitive data collection.

Multimethod Approach is an approach that uses multiple methods to collect and analyze data, in Cross-Cultural Data Collection Methods, multimethod approaches are used to triangulate and validate findings.

Multiple Regression Analysis is a statistical method used to analyze the relationship between multiple independent variables and a single dependent variable, in Cross-Cultural Data Collection Methods, multiple regression analysis is used to model and predict cultural phenomena.

Narrative Analysis is a method of analysis that focuses on the story or narrative of a text or interview, in Cross-Cultural Data Collection Methods, narrative analysis is used to understand and interpret cultural stories and narratives.

Naturalistic Observation is a method of observation where the researcher observes participants in a naturalistic setting, in Cross-Cultural Data Collection Methods, naturalistic observation is used to gather and analyze data on cultural practices and norms.

Network Analysis is a method of analysis that examines the relationships between individuals or groups, in Cross-Cultural Data Collection Methods, network analysis is used to understand and map cultural networks and relationships.

Non-Probability Sampling is a method of sampling where participants are selected based on non-random criteria, in Cross-Cultural Data Collection Methods, non-probability sampling is used to collect data from specific groups or populations.

Observational Study is a type of study where the researcher observes participants without intervening or manipulating the environment, in Cross-Cultural Data Collection Methods, observational studies are used to

gather and analyze data on cultural practices and norms.

Open-Ended Question is a type of question that allows participants to respond in their own words, in Cross-Cultural Data Collection Methods, open-ended questions are used to gather and analyze detailed information about cultural experiences and practices.

Operational Definition is a definition of a concept or variable in terms of the procedures used to measure it, in Cross-Cultural Data Collection Methods, operational definitions are used to clarify and standardize data collection methods.

Ordinal Scale is a type of scale where the data is ranked in order of magnitude or importance, in Cross-Cultural Data Collection Methods, ordinal scales are used to measure and analyze attitudes and opinions across cultures.

Pilot Study is a small-scale study that is conducted to test and refine a research design or methodology, in Cross-Cultural Data Collection Methods, pilot studies are used to test and evaluate data collection methods and instruments.

Population is the entire group of individuals that a researcher is interested in studying, in Cross-Cultural Data Collection Methods, populations can be defined in terms of cultural groups or subgroups.

Positivism is a philosophical approach that emphasizes the use of scientific methods to study social phenomena, in Cross-Cultural Data Collection Methods, positivism is used to develop and test theories about cultural phenomena.

Postpositivism is a philosophical approach that emphasizes the use of scientific methods to study social phenomena, but also recognizes the limits and subjectivity of knowledge, in Cross-Cultural Data Collection Methods, postpositivism is used to develop and evaluate theories about cultural phenomena.

Power Analysis is a statistical method used to determine the sample size needed to detect a statistically significant effect, in Cross-Cultural Data Collection Methods, power analysis is used to determine the sample size needed to detect cultural differences or effects.

Pragmatism is a philosophical approach that emphasizes the use of practical and effective methods to study social phenomena, in Cross-Cultural Data Collection Methods, pragmatism is used to develop and evaluate data collection methods and instruments.

Probability Sampling is a method of sampling where participants are selected based on random criteria, in Cross-Cultural Data Collection Methods, probability sampling is used to collect data from representative samples of populations.

Qualitative Data is a type of data that is non-numerical and consists of text, images, or observations, in Cross-Cultural Data Collection Methods, qualitative data is used to gather and analyze detailed information about cultural experiences and practices.

Quantitative Data is a type of data that is numerical and can be analyzed using statistical methods, in Cross-Cultural Data Collection Methods, quantitative data is used to measure and analyze cultural phenomena.

Questionnaire is a type of data collection instrument that consists of a series of questions or items, in Cross-Cultural Data Collection Methods, questionnaires are used to gather and analyze data on cultural attitudes and practices.

Quota Sampling is a method of sampling where participants are selected based on non-random criteria, in

Cross-Cultural Data Collection Methods, quota sampling is used to collect data from specific groups or subgroups.

Random Sampling is a method of sampling where participants are selected based on random criteria, in Cross-Cultural Data Collection Methods, random sampling is used to collect data from representative samples of populations.

Randomized Controlled Trial is a type of study where participants are randomly assigned to a treatment or control group, in Cross-Cultural Data Collection Methods, randomized controlled trials are used to test and evaluate the effectiveness of data collection methods.

Rating Scale is a type of scale where participants are asked to rate their attitudes or opinions on a scale, in Cross-Cultural Data Collection Methods, rating scales are used to measure and analyze attitudes and opinions across cultures.

Reactivity is the phenomenon where the presence of a researcher or data collection instrument affects the behavior of participants, in Cross-Cultural Data Collection Methods, reactivity can impact data quality and validity.

Reliability is the degree to which a measure is consistent and dependable, in Cross-Cultural Data Collection Methods, reliability is crucial for valid and meaningful data analysis.

Replication is the process of repeating a study to verify or validate the findings, in Cross-Cultural Data Collection Methods, replication is used to establish the generalizability and reliability of data collection methods.

Representative Sample is a sample that is representative of the population being studied, in Cross-Cultural Data Collection Methods, representative samples are used to generalize findings to larger populations.

Research Design is the overall plan or strategy for a research study, in Cross-Cultural Data Collection Methods, research designs are used to guide and structure data collection and analysis.

Research Question is a question that guides the research study and informs the data collection and analysis, in Cross-Cultural Data Collection Methods, research questions are used to focus and direct the research study.

Response Rate is the percentage of participants who respond to a survey or questionnaire, in Cross-Cultural Data Collection Methods, response rates can impact data quality and validity.

Sampling Frame is the list or group of individuals from which a sample is drawn, in Cross-Cultural Data Collection Methods, sampling frames are used to define and select participants for data collection.

Sampling Method is the procedure used to select a sample from a population, in Cross-Cultural Data Collection Methods, sampling methods are used to collect and analyze data from representative samples of populations.

Saturation is the point at which no new information is being collected, in Cross-Cultural Data Collection Methods, saturation is used to determine when to stop data collection.

Scale is a type of measure that is used to quantify a concept or variable, in Cross-Cultural Data Collection Methods, scales are used to measure and analyze cultural phenomena.

Secondary Data is data that has been collected by someone else, in Cross-Cultural Data Collection Methods, secondary data is used to supplement and inform primary data collection.

Semiotics is the study of signs and symbols, in Cross-Cultural Data Collection Methods, semiotics is used to understand and analyze cultural meaning and communication.

Sensitivity is the degree to which a measure is able to detect small differences or changes, in Cross-Cultural Data Collection Methods, sensitivity is crucial for accurate and meaningful data analysis.

Social Network Analysis is a method of analysis that examines the relationships between individuals or groups, in Cross-Cultural Data Collection Methods, social network analysis is used to understand and map cultural networks and relationships.

Sociolinguistics is the study of the relationship between language and society, in Cross-Cultural Data Collection Methods, sociolinguistics is used to understand and analyze cultural communication and language use.

Statistical Analysis is a method of analysis that uses statistical methods to describe and infer from data, in Cross-Cultural Data Collection Methods, statistical analysis is used to model and predict cultural phenomena.

Survey is a type of data collection instrument that consists of a series of questions or items, in Cross-Cultural Data Collection Methods, surveys are used to gather and analyze data on cultural attitudes and practices.

Symbolic Interactionism is a theoretical perspective that emphasizes the role of symbols and meaning in shaping social interactions, in Cross-Cultural Data Collection Methods, symbolic interactionism is used to understand and analyze cultural communication and meaning.

Systematic Sampling is a method of sampling where every nth participant is selected, in Cross-Cultural Data Collection Methods, systematic sampling is used to collect and analyze data from representative samples of populations.

Test-Retest Reliability is the degree to which a measure is consistent over time, in Cross-Cultural Data Collection Methods, test-retest reliability is used to evaluate the consistency of data collection methods.

Thematic Analysis is a method of analysis that involves identifying and coding themes in data, in Cross-Cultural Data Collection Methods, thematic analysis is used to identify and analyze cultural themes and patterns</p></div>
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