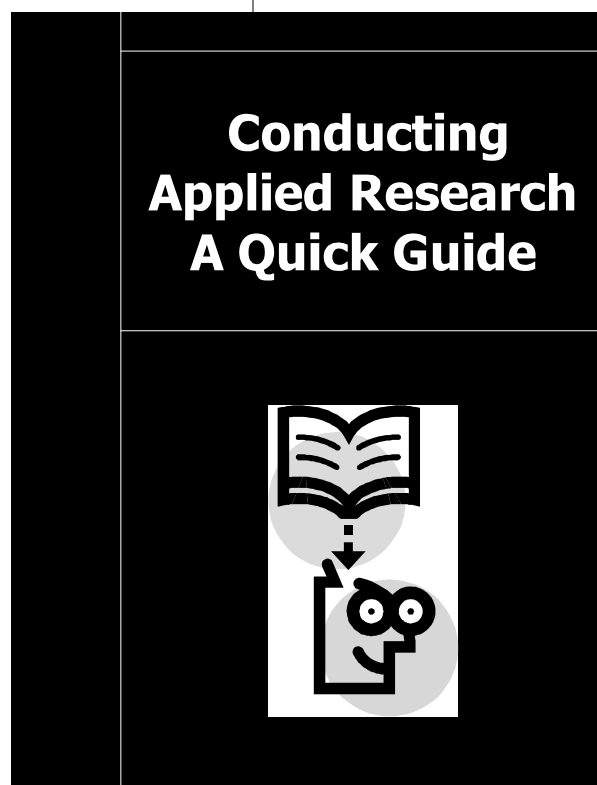


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Data Analyses and Reporting

Data analyses

Descriptive statistics

- describe, organize, and summarize your data
- central tendency; dispersion

Inferential statistics

- testing predictions about a population based on sample data
- correlation analyses

Types of Reports

- Commissioned (contract) research report
- Executive summary
- Peer reviewed journal articles
- Other communication methods
 - websites
 - listserv

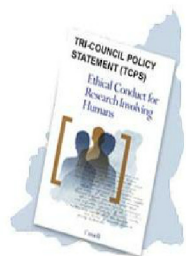


Research Ethics

The fundamental principle:
“RESPECT FOR HUMAN DIGNITY”

Considerations include:

- Free and informed consent
- Respect for vulnerable persons
- Minimizing harm
- Maximizing benefit



Resources:

- *Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans* (1998 with 2000, 2002 updates)
- Interagency Advisory Panel on Research Ethics
- <http://www.pre.ethics.gc.ca>

*Sample application forms and consent forms
available on institutional websites*

<http://www.uwindsor.ca/reb>

Major Steps in Conducting Scientific Research

Formulate the
problem Page 4

Identify sources of
support and funding Page 4

Develop the
methodology and
design Page 5

Consider research
ethics Page 6

Collect and analyse
data Page 7

Report Findings Page 7

Formulate the Problem

- Brainstorm initial interests, issues and questions
- Discuss ideas with colleagues
- Focus on key issues
- Establish a research priority
- Articulate research goals

Identify Supports

- Identify types of support needed
- Consult with potential stakeholders
 - Others with similar interests
 - Experts
 - Funding groups
- Define partnerships, roles and tasks

Identify Funding Sources

Human Resource needs

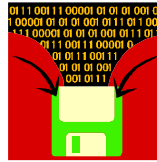
- Working group members
- Size and scope of advisory committee
- Research funding sources
- Develop a draft budget

Develop Research Methodology and Design

Set the foundation for the project with a "Literature Review"

- Avoid duplicating what has already been done
- Build on existing knowledge
- Identify gaps in knowledge
- Get ideas about research strategies

Define the variables of interest for data collection and determine how these will be coded:



- Ensure the integrity of the data
- Install good data management procedures

Develop instruments and procedures for collecting data

- Examples include tests, surveys, interview forms

"Field test" instruments and procedures ensuring that they are suitable to the population of interest

- Ensure research instruments are suitable to population of interest