

**The research questions, the
objectives, and the hypotheses**

Prepared by

ALI MMADI, PhD student - Midocean University





Research Skills (1)

Task 10

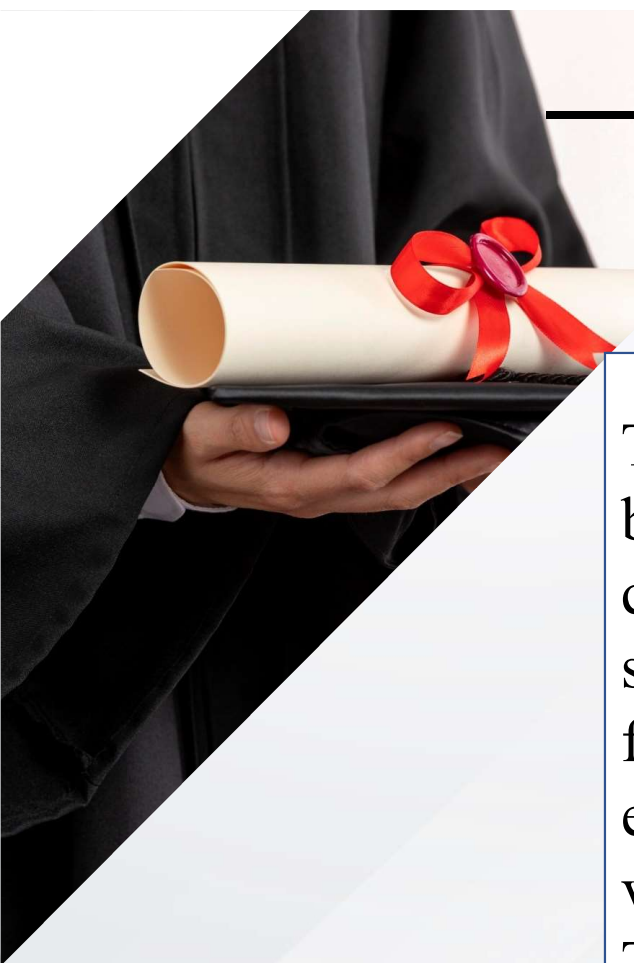
ALI MMADI

PhD student - Midocean University

www.midocean.ae

INTRODUCTION

In this video dedicated to Task 10, I will present the research questions, objectives, and hypotheses of a scientific study in the field of cybersecurity. The study I have chosen is titled: "The Role of Information Security Awareness in Improving Employees' Security Behavior," published in 2019 in the journal Information & Computer Security. Together, we will explore the main elements of this research and check if there is consistency between the questions, objectives, and hypotheses.



Presentation of the study

This study focuses on a very important subject: employee behavior regarding cybersecurity. As you know, companies can invest in very advanced technological solutions, but if employees do not follow best practices – for example, using a strong password, avoiding phishing emails, adhering to access policies – security remains vulnerable.

Therefore, the study aims to measure to what extent awareness of information security can actually improve employee behaviors.

Research questions

The research raises three main questions:
Does awareness of information security positively influence employee behavior? Can cybersecurity training enhance employee awareness? To what extent does personal motivation play a role between awareness and secure behavior? These questions are very clear and focused on a concrete problem for businesses.

The objectives of the research

The objectives of this study are aligned with these questions.

They consist of:

Evaluating the direct impact of safety awareness on employee behavior. Testing the role of training as a factor in improving this awareness. Examining the effect of personal motivation as a mediating variable. The overall goal is therefore to propose a model that connects training, awareness, and behavior regarding information security.

The research hypotheses

Researchers have formulated several hypotheses to answer these questions. Among them:

H1: Security awareness has a significant positive effect on employee behavior.

H2: Cybersecurity training has a positive effect on employee awareness.

H3: Personal motivation mediates the relationship between awareness and secure behavior. These hypotheses directly translate the questions and allow for testing the links between the variables using empirical data.

Coherence between questions, objectives, and hypotheses

When comparing the three elements – questions, objectives, and hypotheses – a clear coherence is observed .

The questions explore the role of awareness, training, and motivation .

The objectives aim to verify these relationships and to build an explanatory model.

The hypotheses translate each objective into a testable proposition .

Thus, there is indeed a methodological coherence: each step logically follows from the other, which strengthens the validity of the research.

CONCLUSION

In conclusion , this study shows that in order to improve cybersecurity in companies, it is not enough to impose rules; it is also necessary to train, raise awareness, and motivate employees. The research perfectly illustrates how questions, objectives, and hypotheses can be constructed coherently to address a real problem.

Bibliographic reference

Alshaikh, M., Maynard, S. B., & Ahmad, A. (2019). *The Role of Information Security Awareness in Improving Employees' Security Behavior*. *Information & Computer Security*, 27(1), 65–85.

Lien : <https://doi.org/10.1108/ICS-09-2017-0068>



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