

Systemic Inquiry for the Future

Competence 3 of 4

Upper secondary / VET · ages ~15-18+



WHAT IS THIS COMPETENCE ABOUT? Modern methods and approaches for applying **critical thinking, research skills, systems thinking and futures literacy** to improve societies and living conditions. It calls for open-minded thinking and research-based methods to solve problems in a transdisciplinary way.



The student is able to...

OBJECTIVES

- Critically analyse arguments, distinguish evidence from opinion and form well-reasoned judgments.
- Identify uncertainties, strengths and weaknesses in claims.
- Apply research methods to improve a social issue.
- Integrate systems thinking into inquiry, design and problem-solving in authentic contexts.
- Build scenarios around a social innovation topic and weigh their assumptions, limits and uncertainties.

ASSESSMENT CRITERIA

- ☐ Justifies claims, weighs multiple perspectives and acknowledges uncertainty.
- ☐ Plans and structures an investigation with focused themes.
- ☐ Conducts the study (data collection, analysis, report).
- ☐ Proposes innovative, systemic solutions supported by evidence.
- ☐ Presents and justifies a few scenarios.



The teacher is able to...

OBJECTIVES

- Facilitate structured argumentation and critical discussion grounded in evidence.
- Have students explore complex, real-world issues.
- Support planning a study that produces sound evidence.
- Design authentic inquiry projects with systemic complexity.
- Promote metacognitive awareness of systems thinking and enable transdisciplinary work.

ASSESSMENT CRITERIA

- ☐ Creates environments where students lead critical inquiry and justify judgments with evidence.
- ☐ Challenges students to interpret data and build arguments.
- ☐ Uses authentic learning for systemic analysis and solutions.
- ☐ Guides metacognitive reflection on systems thinking as a growing skill.
- ☐ Organises collaborative, real-world inquiry and has students build scenarios.

Partners: Universidad de Burgos · HAMK · IPCA · Junta de Castilla y León · CFIE · Politécnico de Leiria · NHL Stenden · Howest · TUS

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