

„LELLE - Let's learn how to learn!- Raising awareness to the importance of and providing an innovative solution for the inclusion of the training of learning skills in existing higher education curricula“



2015-1-HU01-KA203-013619

# LELLE

## Summer Camp

### Lake Balaton

### 28 Aug to 01 Sep 2017

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# Introduction to Critical Thinking

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# Research Context

## 1. Technological Advances & Global Connectivity

- Borderless classroom
- Virtual workplace
- Employability
- Mobility



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# Research Context

## 2. Future Competences & 21<sup>st</sup> Century Skills

Social Skills	Meta-cognitive Skills	Cognitive Skills
✓ Virtual collaboration	✓ Novel & adaptive thinking	✓ Transdisciplinary
✓ Cross-cultural competency	✓ Sense-making	✓ New media literacy
✓ Social intelligence	✓ Cognitive load management	✓ Design mindset & computational thinking

(Davies, Fidler, & Gorbis, 2011)



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# Research Context

## 3. Future Readiness & Trends in Europe

- Europe: Education & Training 2020 strategy to promote growth & job
- Internationalisation in higher education
- Higher Education Institutions' commitment to provide training in practical & vocational contexts



# Research Questions

1. What are the core skill-sets a graduate would need to possess when he or she enters the workforce?
2. What would be the best practices (methods or tools) to develop and to evaluate the core-skill sets in our graduates?

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# Methodology

## Phase 1

- Desktop research on core skills: critical thinking, problem solving & managing one's own learning
- Insight card to collect good practices on learning to learn skills (formal & non-formal educational institutions, as well as training agencies)



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# Methodology

## Phase 2

- 72 structured interviews were conducted via face to-face interviews, Skype and other electronic forms over a period of three months (from Feb to April, 2016): 34 educational institutions, 19 non-educational institutions & 19 training agencies





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# Methodology

## Phase 3

- Development of the **profiling tool**: 48 survey items covering the three core skill-sets (pre-post self-report measure)
- Design and development of **training materials**: objectives and lesson scenarios



# Findings

## RQ 1 Importance of core skill-sets at workplace

- “Learning to learn” encompasses capacity to leverage new experiences to explore uncharted territories: an important asset for progress & development in companies/ industries

# Findings

## RQ 1 Importance of core skill-sets at workplace

- Critical thinking: pivotal for effective and efficient project task planning and execution.
- Problem solving: intricately linked to critical thinking; more of a right attitude & mindset - an important aspect to develop & nurture.

# Findings

## RQ 1 Importance of core skill-sets at workplace

- \*Managing one's own learning: self-knowledge, and reflective learning, lifelong learning mindset & setting specific career goals as important determinants for progress at the individual & collective level
- *Note: \*as most challenging to define*

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## RQ 2. Best methods/ practices to develop and evaluate the three core skill-sets

Development	Evaluation
<b>Educational Institution(s)</b>	
Case study; peer feedback; project work; supervision	Periodic assessments; exams; task performance
<b>Non-educational Institution(s)</b>	
Internal & workplace training; specific tasks	Competency tests; task performance
<b>Training Institution(s)</b>	
Internal & workplace training; mentoring	Diagnostic tests; targeted observation; class inspection



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# Application & Measurement Know-How

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# The Profiling Tool

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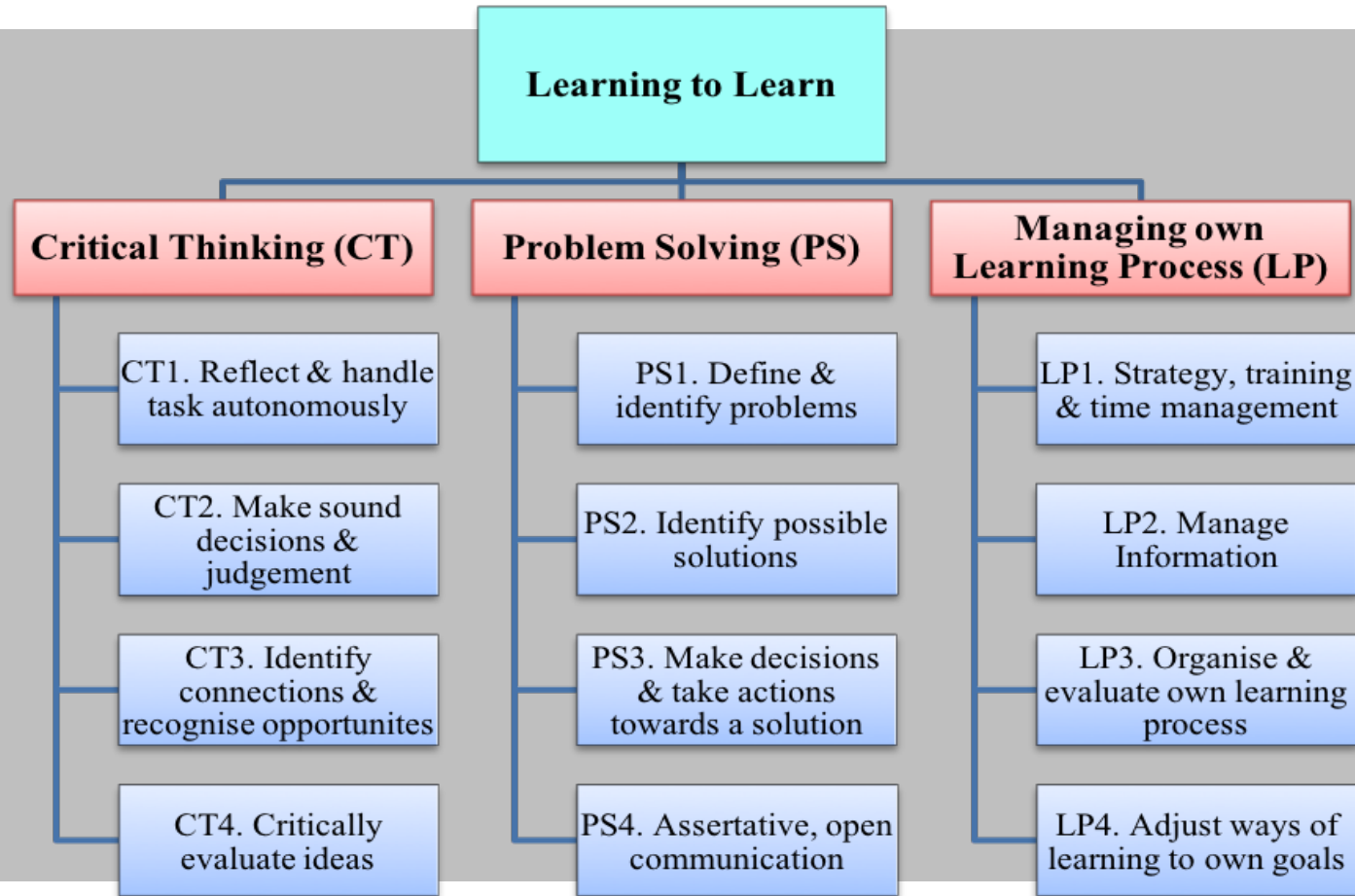


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# Basic CT. Skills & Guided Reasoning

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# Critical Thinking

# Scoring Rubrics

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# Simulated Class

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## LESSON STRUCTURE For CRITICAL THINKING

Activity	Objective	Method	Estimated Duration
<b>Starter</b>	Focus and Engage	<ul style="list-style-type: none"> <li>Plenary Discussion</li> </ul>	30 min
<b>Hands-on</b>	Practise and Apply	<ul style="list-style-type: none"> <li>Mindmap (Individual)</li> <li>Case Scenario (Individual)</li> <li>Critical Analysis I (Group)</li> <li>Critical Analysis II (Group)</li> </ul>	30 min 30 min 40 min 50 min
<b>Review</b>	Summarise and Reflect	<ul style="list-style-type: none"> <li>Self-evaluation</li> <li>Plenary Discussion</li> </ul>	20 min 10 min



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# Activity 1: Decision-Making Case Scenario (Individual Work)

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# Activity 2: Critical Analysis (Group work)

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# Thank you for your participation...

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