AILEEN

ISQ Mobility Activity

Best Practice Highlights — Welding & Inspection Case-Study Approach

13–16 January 2026 | ISQ Academy, Oeiras, Portugal | AILEEN Task 6.4

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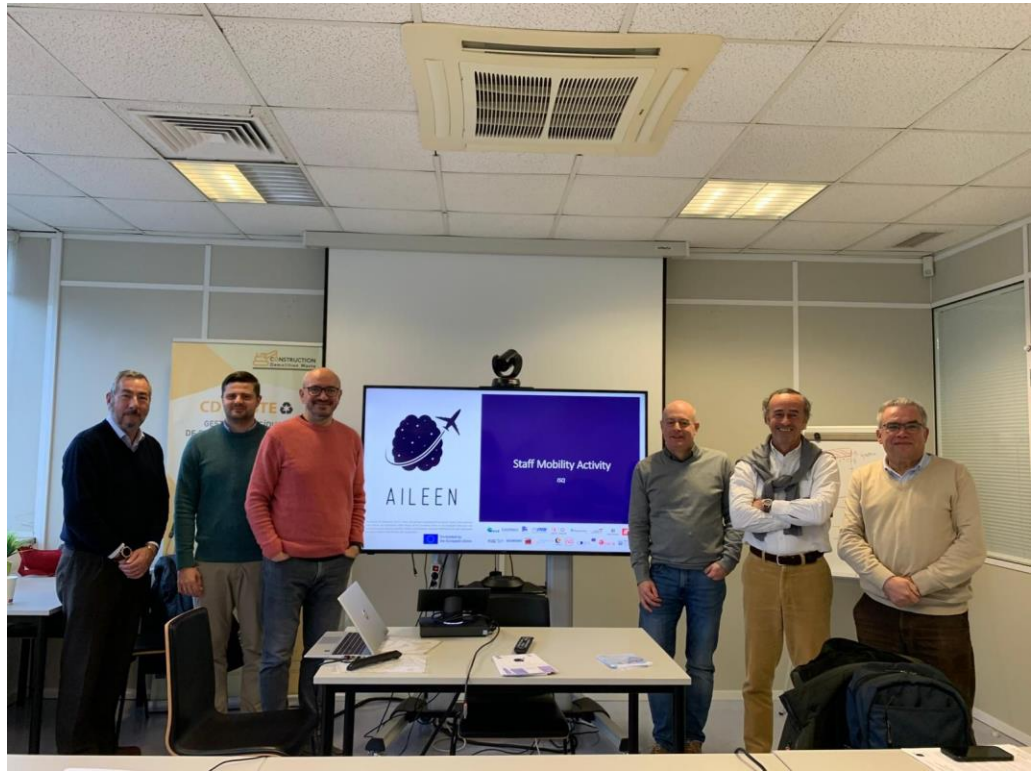
Date and Participants

13-16 January 2026 at ISQ Academy



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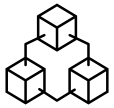
Objectives



Exchange Best Practices

Bring 6 VET staff from BIL, CESOL, METU and ISQ together for peer-to-peer exchange in welding, inspection, materials engineering and NDT.



Develop Case Studies

Structure and refine 7 real industrial case studies for the AILEEN Problem-Based Learning Kit (T5.5), aligned to competence units in welding, NDT and additive manufacturing.

Programme at a Glance

Learning Format:

- Structured discussions
- Guided knowledge exchange
- Reflection and peer feedback

Day 1

Welcoming session
LABMAT technical visits

Day 2

Adressing Case studies: topic selection, case study templates review

Day 3

Case study development: Technical discussions, peer-groups learning

Day 4

Case studies consolidation: open issues

Feedback

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Activities in Action



Participants during case-study discussions at ISQ Academy

Results

1. Joining, Qualification & NDT of Thin Stainless-Steel Tubes
2. NDT of Additively Manufactured (SLS) Parts
3. Aluminium Filler Metal Quality in WAAM
4. Simulations for Training in Ultrasonic Welding
5. Cracking of a COVAR–Tantalum Joint
6. CMT vs PMC for Dot-by-Dot WAAM
7. Wire Arc AM Using Pure Copper Wires

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Key Takeaways & Recommendations

What Worked

- **Clear structure** - pre-mobility questionnaire aligned content to participant needs
- **Practical problem-solving** through real industrial cases (welded tube joints, WAAM, cracked joints)
- **Direct contribution to the project -** 7 case studies delivered directly to Task 5.5 (Problem-Based Learning Kit), including a revised case-study template adopted for future use

Recommendations Going Forward

- **Share pre-mobility briefing materials on** objectives, scope and expected outcomes before each mobility
- **Broaden participation** and thematic matching to attendee experience levels
- **Increase hands-on, applied content** and technical depth requested by participants
- **Add post-mobility follow-up** - participants valued seeing the final result of the activity

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Thank You

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