

Seven Best-Practice Principles for Simulation-Enhanced Vocational Education and Training



An IQMET framework for competence-led, inclusive, digitally enabled and environmentally responsible technical training

 Co-funded by the European Union

Simulation strengthens vocational education when integrated with theory, workshop practice, industrial scenarios, instructor feedback, assessment and reflective debriefing. IQMET defines seven mutually reinforcing principles for using welding simulators and digital learning environments as one competence-development system.



Expected system outcomes

- Stronger industry relevance
- Improved learner engagement
- Transparent progression and assessment
- Verified occupational and production readiness

CENTRAL MESSAGE
Simulation supports but does not replace authentic practical competence.
Competence develops through simulation, human instruction, real production work, evidence and occupational context.

Simulation-to-workplace competence cycle

