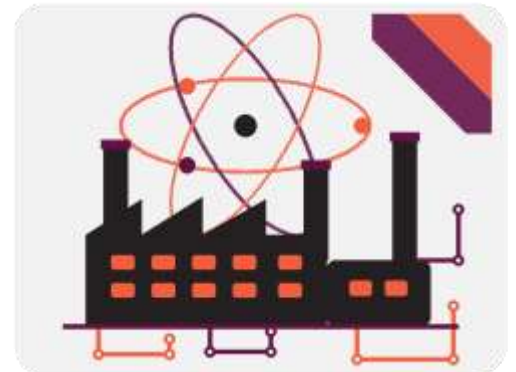


Q-READY MANUF

European vocational excellence ecosystem for quantum skills in advanced manufacturing

The project connects VET providers, manufacturers, universities and quantum centres. It translates quantum computing, sensing and post-quantum security into learning outcomes, training, micro-credentials, practical pilots and evidence for education and skills policy.



QUANTUM COMPUTING

QUANTUM SENSING

POST-QUANTUM
SECURITY

48

MONTHS

4

NATIONAL ECOSYSTEMS

10

JOB-FOCUSED PROGRAMMES

EUR 5 million

WORKING BUDGET / 80% EU

EUROPEAN ADDED VALUE FOR VOCATIONAL EDUCATION AND INDUSTRIAL SKILLS

WHAT THE PROJECT WILL DELIVER

- A European quantum-readiness framework and roadmap for advanced manufacturing.
- 10 programmes for selected technical occupations, including learning outcomes, assessment and micro-credentials.
- A multilingual online platform and open educational resources for schools and companies.
- A modular hands-on laboratory with real equipment and simulators for training and demonstrations.
- Teacher and trainer development, company pilots, work-based learning and employer validation.

WHY THE PROJECT MATTERS

- Modernises vocational education for quantum technologies and advanced manufacturing.
- Develops comparable learning outcomes, assessment, micro-credentials and skills recognition across Europe.
- Strengthens teacher and trainer development, digital learning, practical labs and work-based learning.
- Connects VET, higher education, employers and quantum centres across four national ecosystems.

EUROPEAN ADDED VALUE

Common approaches to learning outcomes, micro-credentials and recognition, plus transferable pilots for vocational education and teacher development.

HOW THE PROJECT CONNECTS EDUCATION AND INDUSTRY

01

OCCUPATIONS AND
STANDARDS

employer needs and WSOS

02

QUANTUM SKILLS GAP
ANALYSIS

computing • sensing • security

03

CURRICULA AND MICRO-
CREDENTIALS

learning outcomes and assessment

04

ONLINE LEARNING + LAB

teachers, simulators and equipment

05

PILOTS AND SYSTEM
UPTAKE

schools, companies, data and
European scaling

PROPOSED CONSORTIUM

20 beneficiaries + associated partners

CZECHIA • FINLAND • PORTUGAL • TURKEY

4 connected national ecosystems

EUROPEAN EXPERTISE

WorldSkills • EADTU • quantum centres • industry

A EUROPEAN STANDARD FOR QUANTUM SKILLS
QUANTUM SKILLS FOR VOCATIONAL
EDUCATION AND TRAINING

SKILLS
QUALITY
RECOGNITION

COORDINATOR: NEXUS - INTERNATIONAL MOBILITY OF THE PILSEN REGION

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www.nexus-pilsenregion.eu • Status: proposal preparation • Expected submission: 3 September 2026



QUANTUM READINESS • VOCATIONAL
EXCELLENCE • SKILLS FOR EUROPE

