

A3.3 Creating the Job-Portrait For XR Simulations key jobs needs



AUTOMOTIVE VEHICLE TECHNICIAN / MAINTENANCE

Country: Greece



CORE SKILLS

- **Technical Expertise:** Engine repair, diagnostics, electrical systems, routine maintenance
- **Precision & Problem Solving:** Fault identification, attention to detail, safety compliance
- **Customer & Workflow Skills:** Clear communication, teamwork, time management



HOW XR ENHANCES TRAINING

Training Scenario

- Introduction and identification of components & parts
- Step-by-step procedures related to common repair and maintenance tasks
- Understand internal mechanical structures and relationships
- Practice with specialized equipment and tools

XR Benefits

- Guided learning and instant feedback
- Safe practice without real damage or risk
- Simulation of complex and rare scenarios
- Hands-on experience with specialized tools
- Lower training costs and greater accessibility
- Skill progress tracking

COUNTRY-SPECIFIC

- **Challenges:** Limited access to advanced & modern training. Shortage of skilled technicians. Changing landscape with EV/hybrid and digital competencies. Opportunities through VR training and international cooperation programs.
- **Professional Ethics:** Respect safety standards and environmental regulations. Work with integrity, honesty, and responsibility. Maintain confidentiality of client data.
- **Training Availability:** Most training remains basic and locally focused, often using outdated equipment (e.g., older engines), with few modern or EV-oriented programs — many of which depend on private initiatives. Promote teamwork, fairness, and lifelong learning.
- **Needs:** Growing demand for hands-on technical training, upskilling in new technologies and electric/hybrid vehicles, and closer collaboration between automotive dealerships and education providers. Graduates often lack the competencies needed to meet the evolving demands of automotive technologies.

CAREER PATHWAY

Progression: Student → Vocational Qualification (Level 4) → Apprenticeship → Automotive Technician (Level 5) → Specialist Engineer with additional certifications or higher education



TRAINING

- **Training Mode:** Blended learning (online theory + XR simulations + hands-on workshop practice), e-apprenticeship.
- **VET Providers:** Public and Private VET Institutes, Automotive industry employers (e.g. service centres), Regional technical training centres operated by private providers or automotive equipment companies.

