

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



# ELECTRICAL ELECTRONICS /IT TECHNICIAN

Country: Greece



### CORE SKILLS

- **Technical Proficiency:** Install, maintain, and troubleshoot electrical/electronic systems and IT infrastructure.
- **Problem-Solving Skills:** Analyze faults, interpret schematics, and apply logical solutions efficiently.
- **Digital Literacy & Safety:** Use diagnostic tools, software, and follow safety and cybersecurity protocols.

### HOW XR ENHANCES TRAINING

#### Training Scenario

- Immersive hands-on labs; virtual hardware & component assembly
- Interactive equipment handling; fault diagnosis and repair practice; circuit testing and design
- Realistic wiring and installation scenarios

#### XR Benefits

- Skills development & competencies; improved knowledge retention
- Component-level visualization
- Enhanced understanding of complex systems & enhanced engagement
- Cost efficiency & remote accessibility
- Safe experimentation; instant feedback and error correction



### COUNTRY-SPECIFIC

- **Challenges:** Hardware limitations, high initial equipment cost, lack of tailored XR content, insufficient teacher training, limited technical support staff, risk of accidents or physical injuries
- **Training Availability:** Limited structured programs & access to online resources, industry-specific applications
- **Needs:** Specialized XR content, curriculum development, instructor training & readiness, public-private collaboration

### CAREER PATHWAY

**Progression:** Trainee Technician → Qualified Technician → Senior Technician / Field Service Specialist → Systems Engineer / Network Administrator / Electrical Supervisor (with further study or certifications) → IT Manager



### TRAINING

- **Training Mode:** Blended learning (online theory + XR simulations + hands-on workshop practice), e-apprenticeship
- **VET Providers:** Public VET Institutes (e.g., TAFEs), Technology and trade training centres, Industry employers (e.g., electrical firms, IT companies, electronics manufacturers), regional skills and training hubs.