



BLENDED

OCCUPATIONAL SAFETY AND HEALTH

# NEW TECHNOLOGIES, ARTIFICIAL INTELLIGENCE AND DIGITALIZATION FOR THE OSH PRACTICE

1 – 26 JUNE 2026

ONLINE (E-CAMPUS): 1 – 19 JUNE 2026

TURIN, ITALY: 22 – 26 JUNE 2026

*Information Note*



International  
Labour  
Organization



International Training Centre

# OVERVIEW

## SNAPSHOT OF THE COURSE

Digital transformation is reshaping the field of occupational safety and health (OSH), providing powerful tools to identify hazards in real time, assess and monitor risks, strengthen compliance with OSH standards, and support rapid control and mitigation strategies. This course equips participants with the knowledge and practical skills to harness emerging technologies—including different tools such as artificial intelligence, big data, and digital platforms—to enhance workplace safety and health outcomes.

Participants will explore how digital systems streamline OSH management through dashboards, remote monitoring, automated scheduling, and other advanced tools. The programme will cover a broad range of topics, from AI-driven analytics and wearable technologies to real-time hazard detection systems that enable proactive accident and disease prevention. Through case studies and simulations, learners will discover how drones, sensors, mobile applications, and computer vision are already being deployed to monitor hazards and support swift responses.

Interactive sessions, hands-on exercises, and peer learning opportunities provide a comprehensive foundation for leveraging disruptive technologies to strengthen modern OSH governance and advance workplace health and safety protection.

## WHAT

### WHAT WILL I LEARN?

Throughout the expert-led presentations, practical case-studies, and group discussions, participants will cover a wide range of digital topics including:

- Core principles, tools and experiences of digital transformation in OSH.
- The fundamentals of digital tools and real-time monitoring systems for hazard detection, risk assessment, and workplace safety governance.
- Practical applications of IoT devices, sensors, wearables, and computer vision technologies to prevent exposures and enhance OSH inspections.
- Methods for building digital dashboards and using mobile applications to track compliance, report near-misses, and strengthen worker participation.
- Innovative approaches to OSH training and communication, including VR/AR simulations, e-learning, QR codes, nudges, and gamification for safe behaviours.
- Data-driven approaches for prevention, including digital repositories, trend analysis, and visualization tools to refine protective measures over time.

## WHAT WILL I BE ABLE TO DO?

Upon completion of the course, participants will be able to:

- Describe the core principles, tools and experiences of digital transformation in OSH
- Identify and apply digital tools and real-time monitoring systems to detect hazards, assess risks, and strengthen workplace safety governance.

## KEY FEATURES

### HAVE YOUR LEARNING CERTIFIED

Successful candidates will obtain an ITCILO Certificate of Achievement

### SHARE YOUR KNOWLEDGE

Connect with a global network of practitioners in an engaging learning environment

### MEET THE EXPERTS

Learn from ILO specialists, ITCILO trainers, and external lecturers

- Use IoT devices, sensors, wearables, and computer vision technologies to prevent exposures and enhance the effectiveness of OSH inspections.
- Design and implement digital dashboards and mobile applications to track compliance, report near-misses, and foster active worker participation in safety management.
- Apply innovative approaches to OSH training and communication—such as VR/AR simulations, e-learning, QR codes, and gamification—to build worker competences and promote safe behaviours.
- Analyse and interpret monitoring data with digital repositories, trend analysis, and visualization tools to refine preventive measures and improve OSH decision-making.
- Draft a practical action plan and roadmap to pilot or scale digital reforms into the OSH management at the organizational level.

## WHO

### WHO TAKES THIS COURSE?

This course is designed for:

- OSH professionals and company-level practitioners, including members of OSH Committees and those responsible for workplace risk prevention and compliance systems.
- Public authorities engaged in OSH promotion, dissemination, and enforcement.
- Trade union representatives, employer organizations' representatives, and technical experts involved in OSH governance.
- Policymakers, trainers and advisors interested in exploring how digital innovation—AI, monitoring tools, and other emerging technologies—can transform OSH practices.

## HOW

The course will consist of a total of 60 learning hours, divided as follows:

- **Online Phase (15 hours):** Online learning combining self-guided modules on the e-Campus platform with live sessions and expert presentations covering the foundational concepts behind the new technologies, artificial intelligence and digitalization.
- **Residential Phase (40 hours):** 5-day intensive training at the ITCILO in Turin providing a deep dive into the most pressing digital challenges, trends, and emerging technologies applied in OSH.
- **Post-Course Assignment (5 hours):** Individual work to develop an applied project combining the learning outcomes of the course.

## WHY

### WHY SHOULD I JOIN?

- The Turin Centre is known for its innovative learning tools and methodologies and decades of international experience.
- **Learn from global experts and real-world case studies**, benefitting from insights shared by leading practitioners and applying lessons from successful international experiences.
- Strengthen your ability to **responsibly apply new technologies** and digital solutions in the management of OSH.
- **Engage in hands-on learning**: engaging sessions, case studies and exercises that bridge theory and practice.
- Successful participants receive an ITCILO Certificate of Achievement

## HOW TO APPLY

Find the application form at <https://oarf2.itcilo.org/STF/A9718848/en> and apply before **18 May 2026**.

## PRICE

TBD

# CAMPUS LIFE

## A THRIVING UNITED NATIONS CAMPUS AND COMMUNITY OF PROFESSIONAL PEOPLE FROM AROUND THE WORLD

- **Three organizations** from the United Nations system on campus
- **More than 300 training courses** and activities in a stimulating international environment
- **Thousands of participants** from all over the world

## ENVIRONMENT AND SURROUNDINGS

### Grab a campus bicycle and explore the Turin Centre.

Located in a leafy park on the banks of the Po River, it's a great place for study and collaboration. Experience innovative learning and training methods in modern classrooms equipped with simultaneous translation services.

## HOUSING, DINING, AND MORE

Comprising more than 280 private dormitories, the **Turin Campus provides a broad range of services for course participants and partners** including a free-flow restaurant, travel agency, laundromat, post office, gym, medical services and a reception desk open 24/7.

## COMMUNITY ENGAGEMENT AND DIVERSITY

**Participants can enjoy social events organized by the Turin Centre** as well as by their course facilitators. Whether on or off campus, people from different cultural backgrounds have the opportunity to listen to live music together, cook and share traditional foods, or team up to play games and network.

## WITHDRAWAL, CANCELLATION POLICY, AND REFUNDS FOR OPEN COURSES

If an enrolled participant wishes or must withdraw from a course, they may choose to apply to a different course or be substituted by another candidate. The participant must notify the Centre, in writing, of their decision at least 14 days prior to the start date of the course. Cancellation of participation in regular courses will result in the following penalties:

- 14 days or more prior to the start date of the course: No penalty, 100% refund of amount paid less applicable bank charges
- 8 to 13 days prior to the start date of the course: Penalty of 50% of course price, refund of residual amount paid (if any) less applicable bank charges
- 7 days or less prior to the start date of the course: Penalty of 100% of course price.

# INFO

## FOR FURTHER INFORMATION PLEASE CONTACT

### International Training Centre of the ILO

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COURSE CODE: A9018848