



SOCIAL PROTECTION

EMERGING TECHNOLOGIES ON SOCIAL PROTECTION

23 – 27 NOVEMBER 2020
TURIN, ITALY

Information Note



International Labour Organization



International Training Centre

INTRODUCTION

Developments in technology affect all aspects of work, from who or what performs the work, how and where work is performed as well as the work that is performed, the ways in which work is organized and the terms of its performance. Additionally, these changes and developments have been accelerating in the last few years.

It has been suggested that the world of work is going through a ‘fourth industrial revolution’. If the three previous revolutions stemmed from the advent of steam power, electricity and personal computers (Schwab, 2016), then the fourth is being driven by the digitalization of information. Digitalization and ICT (Information and Communications Technology), alongside related developments such as artificial intelligence (AI), advanced analytics, robotics, automation, autonomous vehicles, drones, smart devices, 3-D printers, novel human-machine interfaces, the internet of things (IoT), big data, cyber-physical systems, advanced sensor technologies, cloud computing, quantum computing, communications networks and so on, are all becoming increasingly commonplace (Stacey et al, 2016, 2017).

Decision-makers from social protection institutions need to be familiarized with all these concepts, as well as their potential applications. In addition to the opportunities that these developments can provide to the institutional performance, increasingly the discussion of management issues requires the familiarity with all of these concepts.

The International Training Centre of the ILO (ITC-ILO) is organizing this workshop in Turin to acquaint participants with the above-mentioned emerging technologies. The general purpose of the workshop, designed with social protection and occupational safety and health (OSH) institutions in mind, is to explore the potential of these emerging technologies in the fulfilment of their current institutional functions and objectives, as well as in promoting new strategies for coping with future challenges.

PARTICIPANTS’ PROFILE

The course is aimed at decision-makers from ministries and institutions responsible for social protection and OSH, senior officials and advisers from government institutions responsible for the planning, implementation and management of social protection and OSH, along with workers’ and employers’ representatives involved in policy-making at the national or regional level. Decision-makers from private organizations, researchers and university staff involved with social protection issues could also be interested.

LANGUAGE

English

OBJECTIVES

The general objective of the course is to strengthen the knowledge and execution capacity of OSH and social protection institutions on emerging technologies. Upon completion of this course, participants will be able to:

- Define and understand the basic concepts of the cloud, artificial intelligence, the internet of things, advanced analytics and block chains.
- Identify challenges and opportunities arising from these technologies.
- Describe the concrete use in cases where this technology can be applied.
- Transfer knowledge into their organizations and activities in order to better drive these emerging technologies.

CONTENTS

- Computer basics for non-informatics
- The world of work and industry 4.0
- Big data
- Advanced analytics
- Cloud computing
- Machine learning
- Artificial intelligence (AI)
- Internet of things (IoT)
- Block chain
- Natural language processing (NLP)
- Use of advanced analytics and NLP for the management of occupational accidents and diseases
- Augmented and virtual reality for training purposes
- Selected applications to Social Protection

METHODOLOGICAL APPROACH

The methodology will be centred on the participants and the learning process, with the support of facilitators. The training methodology will use active methods for learning, making use of the knowledge and the experience of participants, promoting a permanent communication among participants through group work and discussions that will facilitate their own total integration and participation in the course activities.

Participants will also be presented with pertinent documentation as a follow-up to the presentations in order to expand their knowledge about the topics.

A permanent monitoring of the learning process will be conducted throughout the training by the course co-ordinator. At the end of the course, an individual end-of-course evaluation questionnaire will be used to allow participants to express their views about the training experience.

PARTICIPATION COSTS AND APPLICATIONS

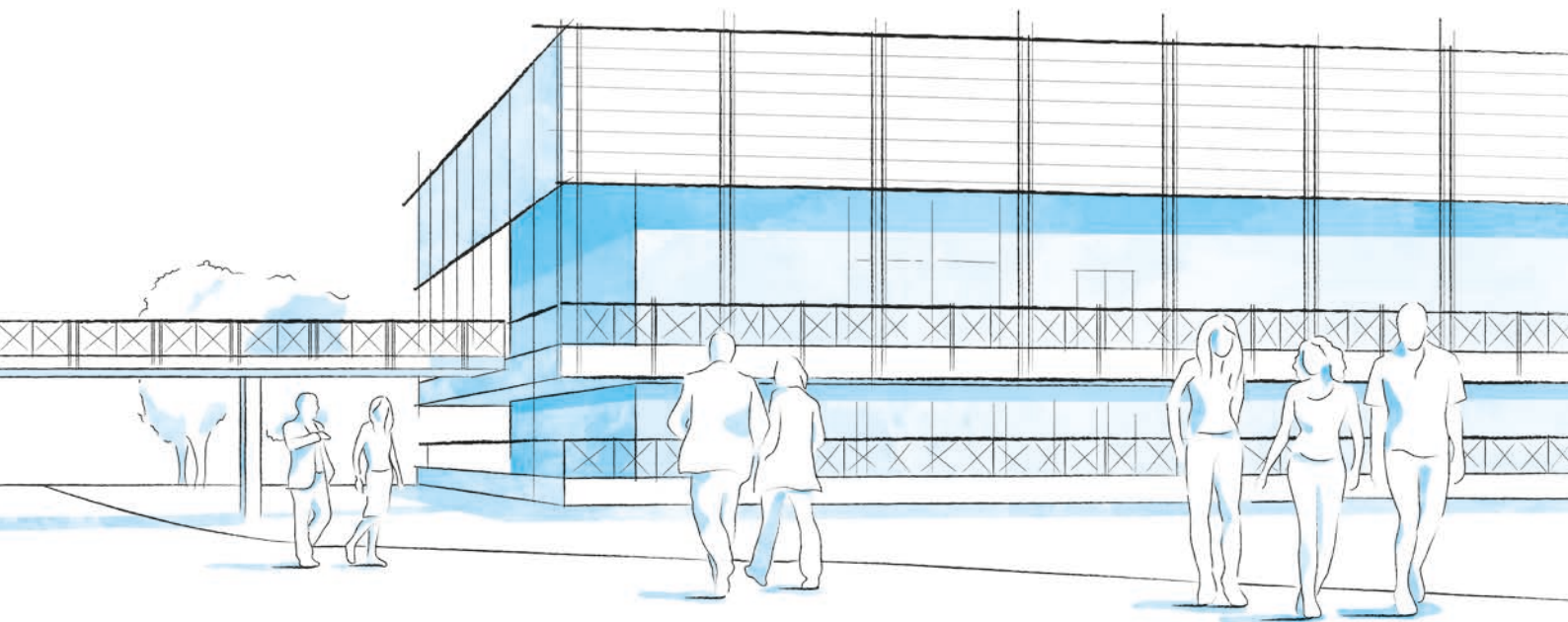
The cost of participation, excluding international air travel, is **€2,285** (course fees €1,650 and participant subsistence, €635) payable in advance by the participant or his or her sponsoring organization. This covers tuition fees; the use of training facilities and support services; training materials and books; accommodation and full board at the Centre's campus; and emergency medical care and insurance.

Applications to participate in the course should be done on-line on the following webpage: <https://oarf2.itcilo.org/STF/A9012938/en>

no later than **16 October 2020**.

The filled-in application form should be accompanied by a signed written communication of commitment from the sponsoring institution indicating how the participant will be financed. After the deadline for applications, the course and the selected candidates will be confirmed and the instructions for logistics, travel, visas as well as for the advanced payment, will be provided.

The payment, cancellation and refund policy of the ITCILO can be consulted on the following website: <https://www.itcilo.org/application>



CAMPUS LIFE

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- **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, bank, 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.

INFO

FOR FURTHER INFORMATION PLEASE CONTACT

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