ECQA

EUROPEAN CERTIFICATION AND QUALIFICATION ASSOCIATION (ECQA)

The ECQA is a non-profit association, joining institutions and thousands of professionals from all over Europe and abroad.

ECQA provides a world wide unified certification schema for numerous professions.

ECQA brings together experts from the market and supports the definition and development of the knowledge (Skills Sets) required for professions.

ECQA defines and verifies quality criteria for training organisations and trainers to assure the same level of training all over the world.

ECQA promotes all certified professionals.

Management of ECQA:
Prof. Michael Reiner, President, IMC University of Applied Sciences Krems, Piaristengasse 1, A-3500 Krems, Austria, +43 2732 802 120, michael.reiner@fh-krems.ac.at

ISCN LTD/GmbH

Contacts:
Dr Richard Messnarz, Principal Automotive SPICE Assessor, rmess@iscn.com
Dipl. Ing. Damjan Ekert, Competent Automotive SPICE Assessor, dekert@iscn.com
BA Adrienne Clarke, Training Manager, aclarke@iscn.com

ISCN LTD, Ireland, has been formed 1994 and established a development site ISCN GmbH in 2001 in Austria. Since 2009 an ISCN Group was formed where a group of companies work under the ISCN Label in consulting for Automotive, medical, and telecom industry.

ISCN is one of the training bodies for Automotive SPICE® accredited by the German Automotive Association Quality Management Center.

ISCN is coordinator of the EuroSPI (European Systems, Software, Services Process Improvement and Innovation) network since 1994 (www.eurospi.net).

ISCN is the technology provider for the skills assessment portals of the ECQA (European Certification and Qualification Association).

ISCN moderates a task force (www.soqrates.de) of leading Germany companies exchanging experiences for the effective implementation of innovation strategies, ISO 15504, Automotive SPICE, and functional safety standards IEC 61508 and ISO 26262.

ISCN has implemented a team assessment portal system to assess the capability of companies based on a set of engineering norms (ISO 15504, Automotive SPICE, ISO 20000, ISO 26262, etc.). The tool is used by major engineering companies in the Automotive and telecom area.

ISCN is offering training in the area of innovation, systems engineering, software engineering and functional safety. Engineers of ISCN have consulted leading Automotive industry in the implementation of ISO 26262 and its integration with Automotive SPICE.

The SafEUr project has been financially supported by the European Commission in the Leonardo da Vinci part of the Lifelong Learning Programme under the project number 518632-LLP-1-2011-1-AT-LEONARDO-LMP. This publication reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

 ISCN LTD/GMBH

Contacts:
Schiessstattgasse 4, A-8010 Graz, Austria
Florence House, 1 Florence Villas, Bray, Wicklow, Ireland
www.iscn.com
www.safeur.eu

SafEUr DEVELOPMENT PARTNERSHIP:

Europe-wide Certified Functional Safety Manager
Overview

Functional safety of modern products and industry systems containing embedded systems has become a first priority in several industrial sectors. The IEC 61508 group of standards requires companies to have implemented Functional Safety Management on organisational and system levels. Domain-specific standards such as ISO 26262 for road vehicles and IEC 62061 for machinery complement IEC 61508.

SafEUr is the first European training and certification program for Functional Safety Managers and Engineers, based on a skill card which is compliant to the European Qualification Framework. SafEUr provides modern e-learning based vocational training, which is based on practical case studies, as well as best and next industry practices. With certified SafEUr trainers available all over Europe, the SafEUr program not only exerts impact on a broad level, but it is also regularly enriched by the inputs from Europe-wide trainings.

Initially, the training program has a clear focus on automotive and ISO 26262. Its architecture, however, has been designed in a way that it can grow and be enlarged to also cover key concepts and case studies from other industry domains.

Target Groups

Functional safety on system and component levels cannot be implemented by individual experts only. Instead, it requires the strongly collaborative efforts and responsibilities of a network of experts from different domains and specialisations. Against this background, the certified SafEUr Training Program addresses the following different target groups:

MANAGERS
Responsibly for Functional Safety on System and Component Level
They have to implement and manage new forms of engineering organisations which allow integrating all aspects of Functional Safety in the system design process from the very beginning.

SYSTEM ARCHITECTS AND DESIGNERS
Responsible for integrating Functional Safety in the Architectural Design
Implementing Functional Safety requires a profound, holistic understanding of the complete system in order to come up with a solid architectural design. An intelligent product and system architecture is considered as the key to mastering the engineering challenges imposed by high levels of functional safety.

ENGINEERS
Involved in Hardware, Software, and Production Aspects of Functional Safety
Critical Engineering Projects
Functional safety engineering according to the relevant ISO standards necessitates a solid understanding of safety concepts and methods. There is typically a large gap between the knowledge of the standard and its successful practical implementation.

STUDENTS
Involved in industry or university programs related to Systems Engineering
It is increasingly important to teach system thinking to students, as this skill is a fundamental requirement for being able to face engineering challenges characterised by a high degree of dependency between disciplines and components.

Exam and Certification

Participants who pass the ECQA exam for the ECQA Certified Functional Safety Manager successfully, and who can prove their practical experience in safety-critical projects, will be able to certify their skills with a Europe-wide, market-recognised certificate. This will give them a competitive advantage in their professional careers and on the job market.

Training, examination and certification can be done in a modular fashion, i.e., candidates may be trained and certified for certain elements only. This allows them to obtain the complete certification gradually in the course of their professional career.