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Active assisted living (AAL) guidance for education and training of persons working in the field of AAL

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ACTIVE ASSISTED LIVING (AAL) GUIDANCE FOR EDUCATION AND TRAINING OF PERSONS WORKING IN THE FIELD OF AAL

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Draft	Report on voting
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Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this SRD is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at <http://www.iec.ch/standardsdev/publications>.

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INTRODUCTION

A person's competencies are an essential factor that will affect the performance and effectiveness of care. It is important to ensure that persons operating the AAL systems are competent based on the appropriate education, training, or experience.

The knowledge and skills of persons working in the AAL field will affect the performance and effectiveness of an AAL system. These skills will include system integration, configuration, installation, maintenance, and other services in the AAL system life cycle. Knowledge on the principles of safety, security, privacy, reliability, usability, accessibility, and ethical principles for AAL users is also important.

In order to ensure the competencies of persons working in AAL, it is important for them to complete particular education and training courses related to demography, assistive technology and AAL systems based on a minimum curriculum to obtain the necessary knowledge and skills.

This document aims to:

- identify and detail roles and responsibilities for persons working in AAL;
- identify the professional skills and educational levels for persons working in AAL;
- provide guidance for the education and training in AAL systems, as well as help the AAL stakeholders choose, develop, build, use and maintain the system and service;
- provide guidance for AAL service providers to manage the competence of their personnel by developing appropriate training to meet the needs of the AAL system and service.

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ACTIVE ASSISTED LIVING (AAL) GUIDANCE FOR EDUCATION AND TRAINING OF PERSONS WORKING IN THE FIELD OF AAL

1 Scope

This document provides guidance on the vocational education, training, and required competencies for persons working in the AAL field. For the purposes of this document persons working in the AAL field are referred to as AAL working persons.

The AAL technical assistant, AAL consultant, AAL technical expert, and AAL formal carer are considered as AAL working persons.

For the AAL informal carer, this document can be a reference when their training and experience are developed and/or evaluated.

NOTE 1 AAL technical assistants, AAL consultants, AAL technical experts, AAL formal carers usually belong to an AAL service provider, product manufacturer, system integrator, or other organization.

NOTE 2 In some countries, there can be deviations with this document.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60050-871, *International electrotechnical vocabulary – Part 871: Active assisted living (AAL)*

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IEC TS 63134, *Active assisted living (AAL) use cases*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60050-871 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1

AAL

active assisted living

concepts, products, services, and systems combining technologies and social environment with the aim of improving the quality of people's lives

[SOURCE: IEC 60050-871:2018, 871-01-02, modified – Deprecated term omitted.]

3.2

AAL technical assistant

active assisted living technical assistant

person supporting AAL users and AAL operators with the installation and continued support of AAL devices and systems and with technical and other advice

[SOURCE: IEC 60050-871:2018, 871-02-03]

3.3

AAL consultant

person advising AAL users on the possibilities of technical support in daily life and assisting them in choosing suitable AAL services, systems or devices

3.4

AAL technical expert

person implementing AAL solutions due to his or her technical education, experience and knowledge of the respective equipment

3.5

AAL formal carer

AAL formal caregiver, US

person who provides officially sanctioned or recognized personal or housekeeping services to the AAL care recipient (IEV 871-02-18)

EXAMPLE Personal support worker.

Note 1 to entry: The personal or housekeeping services are usually paid services.

[SOURCE: IEC 60050-871:2023, 871-02-16]

3.6

AAL care assistant

person providing care services to the AAL service recipient

[SOURCE: IEC 60050-871:2023, 871-02-10]

3.7

AAL informal carer

AAL lay carer

AAL informal caregiver, US

AAL lay caregiver, US

person who provides unofficial (or lay) services to the AAL care recipient

Note 1 to entry: An AAL informal carer is frequently a family member or a friend of the AAL care recipient.

Note 2 to entry: The unofficial services are usually unpaid services.

[SOURCE: IEC 60050-871:2023, 871-02-17]

3.8

AAL care recipient

person who receives and consumes AAL care services

Note 1 to entry: The concept denoted by the term "AAL user" (IEV 871-02-05) includes a wider range of people, including people who do not necessarily require AAL care services.

[SOURCE: IEC 60050-871:2023, 871-02-18]

3.9

AAL user

active assisted living user

person who uses or benefits from, or uses and benefits from, AAL devices, systems or services

[SOURCE: IEC 60050-871:2018, 871-02-05]

3.10

competence

ability to apply knowledge and skills to achieve intended results

Note 1 to entry: Demonstrated competence is sometimes referred to as qualification.

[SOURCE: ISO 9000:2015, 3.10.4, modified – Note 2 to entry omitted.]

3.11

knowledge

human or organizational asset enabling effective decisions and action in context

[SOURCE: ISO 10015:2019, 3.4]

3.12

skill

learned capacity to perform a task to a specified expectation

[SOURCE: ISO 10015:2019, 3.3]

3.13

installation

initial process of enabling a resource to perform its intended activity

[SOURCE: ISO 15531-1:2004, modified – "requested" replaced by "intended" in the definition.]

3.14

maintenance

combination of all technical and management actions intended to retain an item in, or restore it to, a state in which it can perform as required

[SOURCE: IEC 60050-192:2015, 192-06-01, modified – Note to entry omitted.]

3.15

vocational training

training program preparing a person for a profession/trade

3.16

advanced education

advanced training

continued vocational training