

Application + Questionnaire USKA Working Group «Radioamateur of the Future»

Name/Call:

e-Mail:

I have good knowledge in the following areas (please cross all that apply)

- Basic digital circuits (logic/gates, flip-flops, mux, latches, ...)
- Quantisation of analogue signals (ADC, DAC, Nyquist, Shannon, ...)
- Digital modulation/demodulation methods (from FSK to OFDM)
- Digital signal processing (digital filters, basics of FPGA, ...)
- Mikrocomputer (Arduino, RasPi, Redpitaya etc, architecture, interfaces, ...)
- Operating systems (Unix, Linux, Windows, iOS, macOS, Android, others)
- Programming languages (C, C++, Java, Visual Basic, C#, Python, Perl, sh, IDE's)
- Network LAN/WAN basics (packets/frames, Ethernet, IP, adresssing, port numbers, switch, routing, protocols, services, ...)
- Wireless networks (WLAN, Bluetooth, ...)
- World Wide Web WWW (w3c.org, HTTP, HTML, Javascript, CMS ...)
- Data compression/encryption/error detection and correction
- Cyber security (firewall, virus, worms, ...)
- Teaching experience** in selected areas mentioned above
- Teaching experience** in amateur radio license exam preparation courses

Please note: we intend to teach basic knowledge of all stuff above (no time for more!)

It is of course advantageous for the instructor to have substantial knowledge reserves when teaching a subject. This allows him/her to answer questions also in adjacent topics.

Second remark: In amateur radio, we can omit a substantial number of subjects of modern ICT. They do not belong to the «basic package», but can later be used for «continuing education» or «lifelong learning» («USKA Academy»), such as DBMS, algorithms and data structures, virtualisation, container, IDEs, GUI, cloud, VPN, web based applications, artificial intelligence and so on. Of course we furthermore omit basic PC handling and how to use enduser PC or smartphone application programs. That kind of stuff is already known by our audience.

I am member of:

STV/Swiss Engin. Swiss-ARTG IEEE ACM SEV/Electrosuisse CH Open

Remarks:

Please return this form to hb9amc@uska.ch per e-Mail.