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AN IMPROVEMENT OF COSMONAUT TRAINING PROCESS FOR PERFORMING TARGET
WORK ONBOARD THE ISS

Abstract

The International Space Station is a multifunctional space laboratory in the Earth's orbit of 400 km high. The station allows scientists from different countries to perform national and joint research programs. An improvement of the efficiency of target work onboard the ISS is topical and relates to the increase of both fundamental and scientific-applied studies in various lines, such as: material sciences, ecology and monitoring of the Earth, geophysics, biotechnology, robotic systems, medicine, etc. Further development of the ISS RS, equipping it with the multifunctional laboratory module, complication of the scientific and applied tasks of mission plans, improvement of onboard systems, introduction of new scientific hardware require the continuous updating of cosmonaut professional training, including training for target activities using up-to-date simulation facilities at the Gagarin RT CTC. The paper presents stages and approaches of cosmonaut training, existing training means for target activities designed with the use of state-of-art information computer technologies as well as features of cosmonaut training for target activities these days. Also, the paper considers the basic technological process of cosmonaut training for target activities and joint target operations with partners within the frame of the ISS program.