Service name:	Modern Production Technologies
Service description:	In order to achieve the greatest possible service life of structures, or individual elements from which they are made, there is also a need to improve the surface protection system. The applied protection can be based on changing internal or external damage factors, as well as on creating a protective barrier between the aggressive environment and the protected material, which will result in preventing the development of corrosion mechanisms. It is known that the costs caused by corrosion amount to up to 3.4% of global GDP, and therefore there is a clear and justified need for the development and application of modern production technologies in the field of surface protection. Since 3/4 of metal structures are protected by the application of organic coatings and the creation of a protective barrier, the content of this program is based on modern technologies in this area. The proposed professional development program for the positions of managers of modern production technologies in the field of surface protection represents a starting point, i.e. a minimum level of professional qualification for performing the tasks of managers of the relevant technologies. The scope of work that the student should be able to do after completing the program includes tasks related to the introduction and practical application of modern surface protection technologies, as well as quality control of protective systems resulting from the application of the aforementioned technologies. With the introduction of an increasing number of standards and regulations into production processes, as well as the demand of customers for the highest possible quality and guaranteed service life of protective systems, manufacturers are forced to constantly introduce newer lines and procedures into their production. This also creates a need for trained personnel who will be able to realize advances in production and, by applying such systems, ensure satisfactory quality of output products. No matter how much modern processes become increasingly automated over time, there is still a need for an operator who will put the plant into operation and, in addition, optimize and regulate the operating parameters of the process based on continuous quality control. For this reason, the proposed training program is one of many activities in a series that need to be carried out in order to ensure high-quality and reliable production in accordance with modern standards and requirements. In this way, this professional training program can result in the improvement of production if the participants apply the acquired knowledge to introduce some of the mentioned procedures into production. After that, if the best characteristics of the mentioned technologies are ensured, it is reasonable to expect an increase in competitiveness. Upon completion of the training program for the position of surface protection technology manager, participants will acquire new and expand existing knowledge, skills and abilities in individual professional areas necessary for performing management tasks: 1. describe the basic characteristics of corrosion processes, 2. based on the established state, be able to detect the causes of the development of corrosion mechanisms and define the protection technology according to them, 3. know production technologies with their characteristics in order to ensure maximum utilization and ensure satisfactory quality of the applied protection system 4. perform quality control and, based on the results obtained, be able to evaluate the protective effect of the applied system and, if necessary, make

	parameter corrections, 5. implement the process of adopting new production resources, applying a basic level of knowledge about the usability and cost-effectiveness of a certain technology depending on the characteristics and needs of production, 6. analyze and ensure spatial, material and specific personnel prerequisites for the efficient use of all resources. Upon completion of the training program, participants will be competent to: 1. determine the technological level of development of the production facility, 2. distinguish the technological capabilities of production systems, 3. improve and modernize current production lines with new and modern technologies, 4. correctly select new production technology according to the desired criteria, 5. optimize operating parameters in order to achieve satisfactory results of the production process
Webpage:	
Manager/ Coordinator:	Tomislav Šolić, PhD, Assistan professor
Associates:	Associates and lecturers who can deliver parts of the program or the entire program are: Dejan Marić (PhD, Assistant professor) and Željko Jagodić, mag.ing.mech. In addition to the above persons, individual parts of the program can also be delivered by other teachers from institutions who have previously completed the training program for delivering the program. Associates who deliver the practical part of the training in companies work under the mentorship of teachers and associates who deliver the training program
Contact details:	tsolic@unisb.hr
Price:	150,00 €
Additional remarks:	