

## Certification scheme for persons (**TMS 04**) in the field of brazing - Brazers (Brazing)

ELEMENT	DESCRIPTION
Subject and area of certification	Certification of persons in the field of brazing Category of persons:  • brazers  • personnel for performing permanent joints on pressure equipment
Reference documents	<ul> <li>SRPS EN ISO 13585:2024</li> <li>Rulebook on pressure equipment, ("Official Gazette of RS" No. 114/2021) Annex I, item 3.1.2</li> </ul>
Description of jobs and tasks	The brazer performs brazing in accordance with the BPS list. The BPS list contains all the necessary data on the type of material, basic and additional, on the brazing position, the number of passes, etc.
Criteria for initial certification / recertification (certificate renewal)	For <u>initial certification</u> according to the TMS 04 scheme, there are no special prerequisites related to education, general and specific work experience. All applicants who believe they have the appropriate skills to form a sample prescribed by the SRPS EN ISO 13585 standard can take part in the TMS 04 exam.
	<ul> <li>The conditions for recertification are as follows:</li> <li>According to point 9.2 - After the expiration of 3 years from the issuance of the certificate, the certificate is extended for an additional 3 years with the submitted certificate, authenticated for the last 6 months and the Report on the corresponding test (NDT or destructive test).</li> <li>approval for the performance of permanent joints on pressure equipment is renewed under the same conditions as the certificate that was approved.</li> </ul>
	Link to: TMS PR.08, Rules for certification of persons and point 9.1 and 9.2 SRPS EN ISO 13585
Method of certification / assessment method for initial certification and recertification	<u>Certification</u> : Examination and evaluation of the compliance of the demonstrated competence of the candidate on the conducted exam - by checking his work, with the established requirements for competence for a certain qualification, specified in the reference standard.
	Recertification: Evaluation of the candidate's competence based on the results of the evaluation of the submitted documentation.
	Link to: TMS PR.08, Rules for certification of persons and clause 9.2 SRPS EN ISO 13585
Provision of conditions for the implementation of the exam	Each candidate shall, independently of STSO, ensure the conditions for the implementation of the exam. All the necessary conditions are given in the document SO QI 02 03, Information on the conditions for the implementation of the exam.
	The candidate should provide: BPS or pBPS (if not, the examiner can provide it).



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Criteria / evaluation method	Professional knowledge exam: this part of the exam is not mandatory.
	The result of the professional knowledge test is satisfactory if the candidate answers positively to at least 8 out of a total of 10 questions.
	Practical part of the exam: in accordance with the provisions of the reference standard, through confirmation by examining the test sample in an accredited testing laboratory.
	Approval for performing permanent joints on pressure equipment: Inspections and tests are carried out under the responsibility of the designated body. When approving personnel for performing permanent joints on pressure equipment, the subject and area of the welder's certification is checked in relation to the requirements for performing permanent joints on pressure equipment.
	Link to: TMS PR.08, Rules for certification of persons and point 6 of SRPS EN ISO 13585, Regulation on pressure equipment, Annex I, pt.3.1.2; List of Serbian standards in the field of pressure equipment and assemblies where the maximum allowable PS pressure is greater than 0.5 bar
Code of behavior of a certified person	The rules of behavior of a certified person are given in the documents: TMS PR.08, Rules for the certification of persons and SO QI 02 01, Instructions for the use of certificates.
Monitoring methods and criteria	Checking or confirming that the certified person submits, every 6 months after the award of the certification, a certificate of performance of the work for which he is certified. This implies the obligation of the welding coordinator to validate the certificate of the certified person every 6 months.
	The approval for performing permanent joints on pressure equipment is valid under the same conditions as the certificate that was approved, including the period of validity.
	Link to: TMS PR.08, Rules for certification of persons and clause 9.1 SRPS EN ISO 13585
Criteria for suspension and withdrawal of certification	Described in document TMS PR.08, Rules for Certification of Persons.
Criteria for changing subjects and areas or certification levels	In the event of a change in the certification scheme, i.e. the reference standard, certified persons and other interested parties will be appropriately informed about the changes and ways of verifying them.
	Link to: TMS PR.08, Rules for Certification of Persons