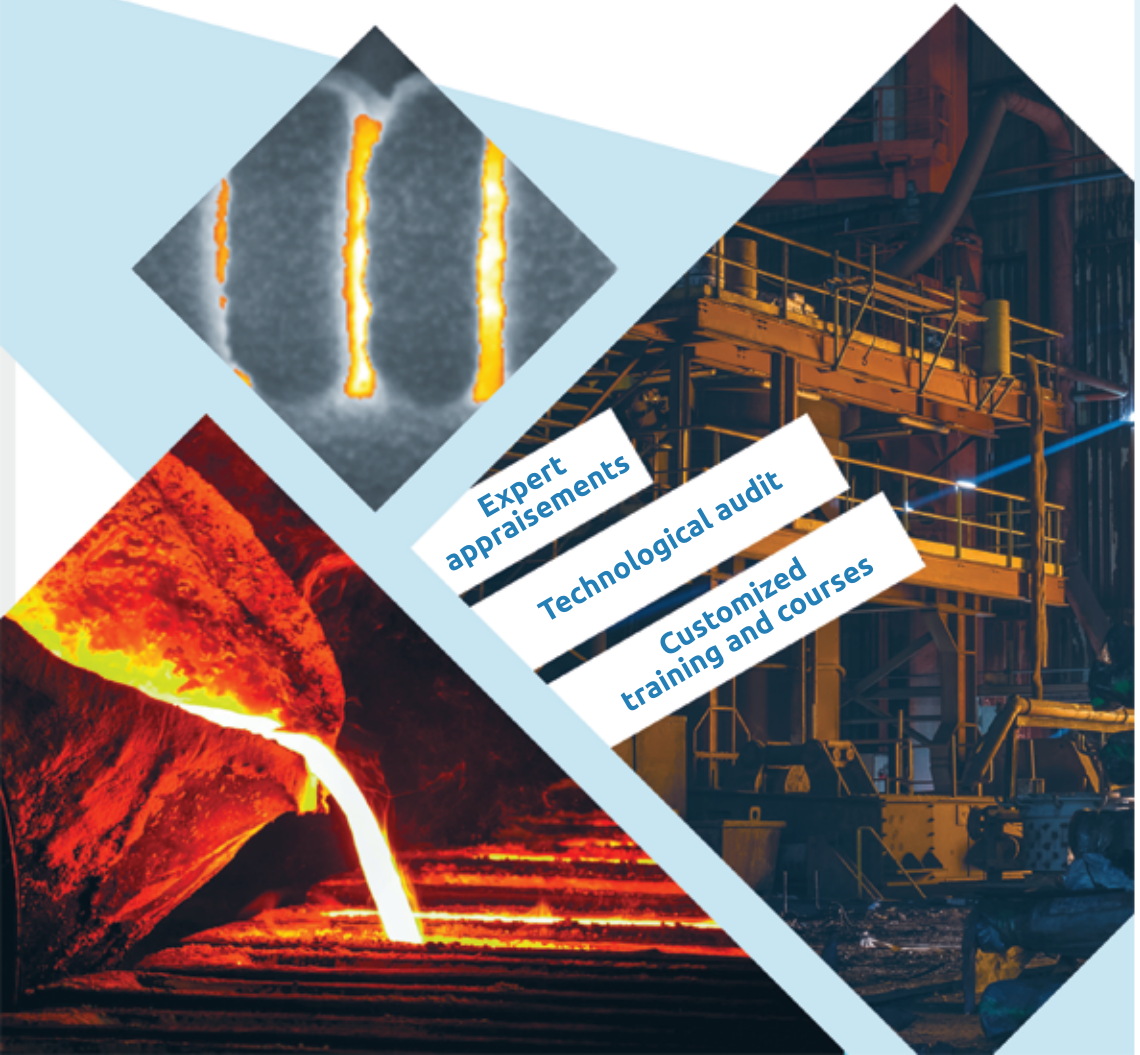
createc

Technical advice foundry

CREATEC offers comprehensive and dedicated technical and technological consulting services for foundries. The cooperation starts with a technological audit during which we identify the strengths and weaknesses of the production process or technology. We treat each issue individually and support our analyses with specialist knowledge in the field of material engineering, metallurgy, advanced manufacturing techniques and metrology. The effects of the audit are proposals for changes in technology aimed at improving the efficiency of the existing production process or a new technology design to enable the production of new or significantly improved products. Projects are implemented on commercial terms or with the support of funds from, for example, the National Centre for Research and Development. We also provide specialized services for pressure die casting foundries, precision casting foundries and sand casting foundries.



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Thanks to our industry-specific experience and the knowledge of the casting industry needs, we are convinced that it is necessary to offer specialized and dedicated services for the casting industry to enable the verification of the technology or the product.

We are perfectly prepared to implement complex projects and prepare analyses and expert opinions using optical systems, including 3D scanning, reverse engineering and rapid prototyping methods, thermovision, computer-aided processes and various types of tests of material properties.

3D printing & rapid prototyping
- castings,
- sand molds and cores,
- composites molds,
- wax models,
- conformal matrices and inserts

Computer-aided analysis of industrial processes
- tooling design,
- numerical simulations,
- quality control by vision systems,
- expert systems,
- Big Data analysis.

3D scanning & reverse engineering
- control of the shape and dimensions of products,
- control of tools and tooling wear,
- virtual assemblies,
- creating of the CAD models based on analysis of the real part.

Machines and devices analysis
- analysis of the temperature distribution in the chambers of furnaces or heating systems,
- failure prediction systems.

Mechanical properties analysis
- mechanical properties,
- physical properties,
- fatigue properties,
- micro- and macrostructure.

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