



LUT MECHANICAL ENGINEERING



LUT
WELDED METAL STRUCTURES
CONTINUING EDUCATION

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IWSD

– INTERNATIONAL WELDED STRUCTURES DESIGNER –

IWSD course offers comprehensive overview of **design of welded structures**, introduces current international research trends in design of welded structures, and offers insights into advanced high-quality materials, their manufacturability, and associated production costs.

Course content includes topics related to, e.g., fatigue design of weldments, high-strength steels in design, and interaction between design and manufacturing operations.

Course is based on the IWSD training program approved by **International Institute of Welding (IIW)**.

TO WHOM ?

- **Companies striving for global leadership** and recognizing importance of advancing the design–manufacturing chain
- **Organizations designing welded structures** and seeking involvement in demanding projects that drive development of innovative welded products
- **Professionals** committed to continuous learning, aiming for challenging assignments that require specialized expertise in welding industry

WHY ?

- **Designers shape functionality, purposeful quality, and cost-efficiency** of products through selection of materials and production technologies
- **Modern design requires broad, multidisciplinary expertise** and abilities to oversee entire production chain
- **Investing in up-to-date expertise and access to latest research**, supported by internationally recognized certification, strengthens the company's competitiveness and innovation capability

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COURSE CONTENT

The course consists of seven main modules:

M1. Welding Technology and Material Science for Designers

M2. Strength of Materials

M3. Design of Welded Structures

M4. Design of Welded Joints

M5. Design of Welded Plate Structures

M6. Design for Purpose in Welded Structures

M7. Fabrication, Costs, Quality and Inspection

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