



# LUT MECHANICAL ENGINEERING



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**LUT**  
**WELDED METAL STRUCTURES**  
**CONTINUING EDUCATION**

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## CONTINUING EDUCATION

# 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

CONTINUING EDUCATION

# IWSD

## – INTERNATIONAL WELDED STRUCTURES DESIGNER –

### 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

### CONTACT INFORMATION

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