

Education of Inspectors for Construction Products Regulation (CPR) with the Standard EN1090.

INTERDISCIPLINARY CONTENT

The course describes the roles that a welding inspector will have in connection with work and tasks, which is part of the CPR and the standard EN 1090. This includes drawing up inspection plans and assessing these in relation to the characteristics of the structure.

The course gives the participants knowledge of how to prepare plans, plan the fabrication process, and implement and document the necessary inspection tasks. This includes making assessments of the scope of samples to be carried out on the structures, as well as corrective actions where necessary. The course covers the disciplines of welding, assembly, surface treatment, bolt connections and documentation.



SCOPE

This course is organized into 10 Competence Units (CUs) that addresses the requirements within EN1090 and the European CPR (Construction Products Regulation, EU305/2011).

The course has been developed in close cooperation with industry in Slovakia and Hungary. The training follows the production process in a company and is work-based. It follows the product's development from the first idea until a completed product.

ORGANIZATION

As flexible continuing education course for full-time employees, or as a continuous course of 10 days including the practical training. The units (CUs) can be taken individually, if necessary, and adapted to the company's needs.

QUALIFICATIONS

The students receive a Diploma as an EN 1090 Inspector.

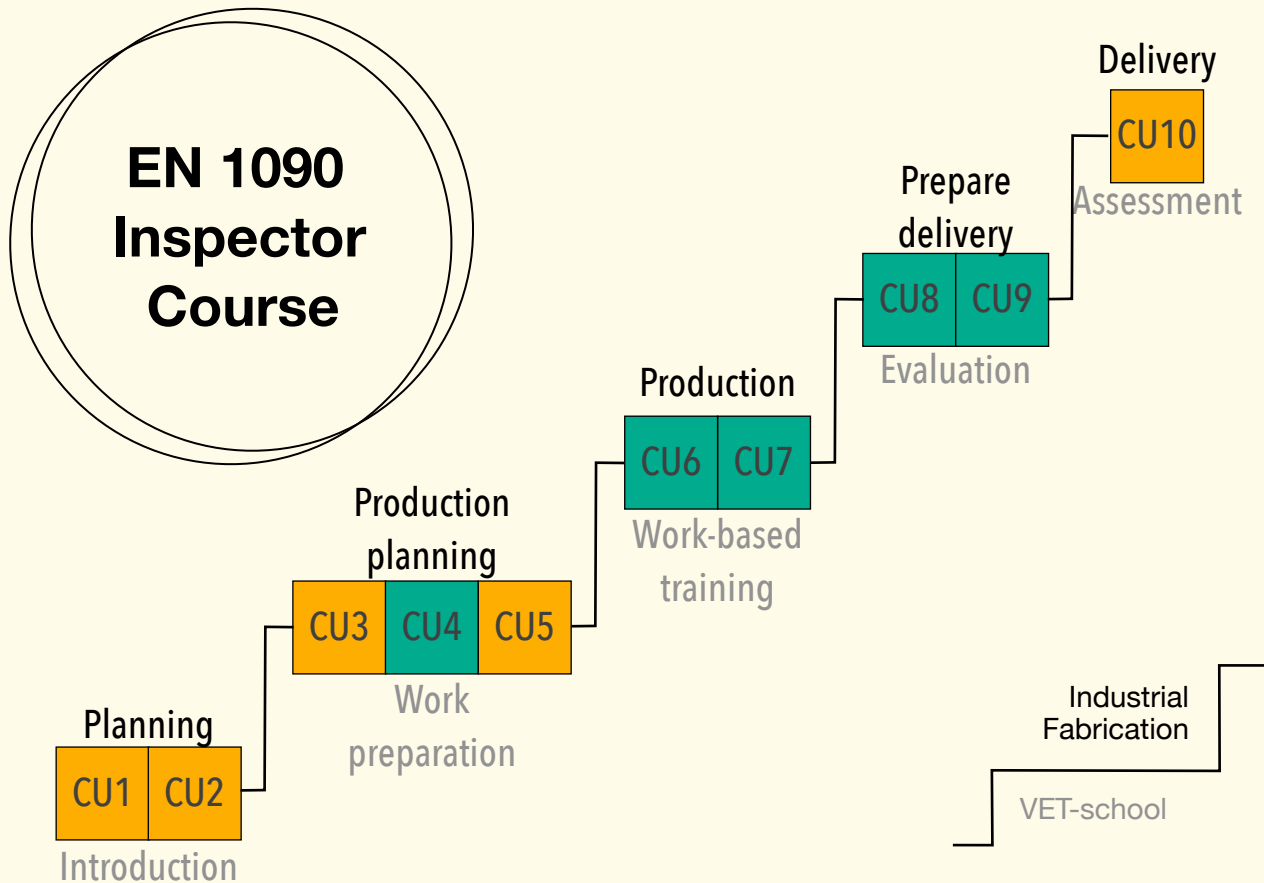
ADMISSION REQUIREMENTS

Students must hold an IWT or IWS Diploma, as described by the European Welding Federation.



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Work-relevant training: The course is organized into 10 independent competence units (CUs). The 5 yellow units contain the theoretical training, while the 5 green units apply work-based training where the training follows the production process of the steel structure. Each CU is aiming at the different steps in the production process.

What's new? The interdisciplinary approach is completely new to this complex field, and suppliers in the industry who have to deal with CPR and EN1090. It is a novelty to divide the course into independent competence modules that contain general and specific learning objectives, as well as minimum requirements for acquired competence after completing the course.

- CU1 - Introduction to using modern ICT tools for communication between the student and the teacher, and between the students.
- CU2 - Evaluating an inquiry. Assess the scope and type of inspection based on the request.
- CU3 - Design review. Evaluate solutions in terms of fabrication, production equipment and available resources.
- CU4 - Documentation and Production Plan. Prepare documentation requirements and scope.
- CU5 - Greener Economics in Welding and Inspection. Assess the best economical and environmental welding and cutting methods.
- CU6 - Non Destructive Testing and Inspection. Introduction to NDT methods and their usage.
- CU7 - Mechanical Fastening and Erection of the Structure. Introduction to bolt connections and the requirements for these seen in the context of installation of the structures.
- CU8 - Surface protection and Dimensional control. Reviewing alternative methods of surface protection, as well as methods of dimensional control.
- CU9 - Dimensional Control and Delivery Documentation. Documentation of work performed and delivery documentation.
- CU10 - Summary and examination. Final exam.



Co-funded by the
Erasmus+ Programme
of the European Union

This project has been funded with support from the European Commission. This publication reflects the views only of the authors, and the Commission cannot be held responsible for any use, which may be made of the information contained therein.