

Trainee's Project Report

Job Code	DG2722
Department	DG
Discipline	Mechanical Engineering
Supervisor	SANTOS SILVA Phillip Miguel

Description

Under the direct supervision of a Mechanical Safety Engineer, the trainee shall contribute to the mechanical assessment of equipment and structures to be installed at CERN.

In order to perform safety assessments, independent analysis are carried out. This allows the Section to give detailed indications on critical design issues and advise Users on what measures they should take.

At the beginning of his/her stay the trainee shall, concentrate on learning Finite Element modeling software, 3D modeling software and become familiar with Mechanical Safety Codes and the European Directives.

He/she will also progress their knowledge related to pressure equipment, lifting equipment and structural design.

Special Requirements

Mechanical Engineer

Basic understanding of finite element calculation software.

Experience with CAD modeling software.

French OR English essential.

Training Value

Integrate a multidisciplinary team which provides technical and safety advice to all of CERN.

Learn how to design structures of different types (pressure vessels, metallic structures, lifting equipment, magnets, vacuum vessels, etc) according to European safety codes.

Learn FEA and CAD modeling software (Ansys, Catia, +others).



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