FORMATION
Génie civil
Génie civil pour le nucléaire

Mis à jour le 21/03/2025

AFCEN Nuclear codes for Civil Works (ETC-C & RCC-CW) : Construction - Distance learning in english

> CETTE FORMATION S'ADRESSE À

THE TRAINING IS INTENDED FOR:Civil engineers with responsibilities for coordination and execution of works on EPR projects, who look for transition training covering the key changes between the Euronorms and the ETC-C/RCC-CW.

> PRÉ-REQUIS

PREREQUISITE:An understanding of civil engineering construction. The one day training "general introduction" (ref 0731) is recommended to attend ETC-C and RCC-CW "design" and "construction" courses.

> INFORMATIONS PRATIQUES

Modalité : Classe virtuelle
Durée : 2,00 jours

EN BREF

OVERVIEW :RCC-CW codes (rules for design and construction PWR nuclear civil works), published by AFCEN, are used to design and build the civil structures of nuclear power plants.RCC-CW was published in 2010 and 2012 as ETC-C for EPR nuclear power plant. The most recent RCC-CW editions (2015 to 2019) can be applied to PWR projects.The training session explains the requirements of the part C Construction of the RCC-CW code.

OBJECTIFS

TRAINING OBJECTIVES: The purpose of this 2 day training session is to outline the requirements of the ETC-C and RCC-CW codes. Dedicated to the Construction (Part C) of the code, it covers all the aspects of the construction for Civil engineering structures of nuclear power plants (geotechnics, seismic analysis, concrete, prestressing, liner, anchorages, steel works…). Part M of the code dedicated to leak tightness tests and resistance tests on containment is also presented.

THÉMATIQUES

THEMES:To present part C of the RCC-CW : Earthworks and soil treatments, concrete, passive reinforcement and post tensioning systems, liners for containments and fuel ponds, sleeves and anchor plates, structural steelwork, topography, tolerances, containment leaklightness and resistance tests.

PRINCIPES ET MÉTHODES PÉDAGOGIQUES

-Questionnaire d'autopositionnement (prérequis, expériences, attentes), fil rouge assuré par le coordinateur expert ou un référent de PFC, temps d'interaction avec le(s) expert(s) et les apprenants, apports théoriques et méthodologiques, illustrations concrètes, exemples d'application, étude de cas, quiz, retour d'experience. Evaluation des connaissances : exemples d'application, étude de cas, quiz..
Training is delivered remotely in English

EVALUATION DES CONNAISSANCES

Exemples d'application, étude de cas, quiz…

COORDINATION

Weiss GHAFOURY, Civil Works Engineer, EDF DIPNN Dir. industrielle

Mohammed EL HAYANI, SOFREN

PROGRAMME DÉTAILLÉ

Journée	Opening and introduction to the session
	Topography, tolerances, monitoring
	Geotechnical
Journée	Structural steelwork.
	Concrete for the safety classified building
Journée	Passive reinforcement
	Anchor systems
	Post tensioning systems
Journée	Leaktight metallic part on containment Pools and tanks
	Leak resistance tests and containment monitoring
	Conclusion, evaluation