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CT will deliver a training program on Siemens NX applied to the naval sector

- Starting in September, a team of CT engineers will provide a classroom training program on the Siemens NX software tool at its offices in Narón, Cartagena and Seville, where the company has been developing projects for all types of ships and offshore units for almost 30 years.
- The company offers this training with 15 years of experience in the implementation of this NX software in sectors such as naval, defence and rail, and a team of highly qualified experts in the integral management of the life cycle of naval services.
- CT focuses this training on the naval sector in the face of an imminent demand in terms of Industry 4.0 from all the actors in the sector.

Madrid, 30 July 2020,- CT, a leading engineering company in technological innovation throughout the product life cycle, will launch from next September a training program in the Siemens' NX and Teamcenter environment, aimed at industry professionals interested in starting in NX CAD and learning more about all applications related to the naval environment. The training program will take place in the offices where CT focuses its naval activity in Spain: Narón (A Coruña), Cartagena (Murcia) and Seville (Andalusia), as well as online.

"In this training program we are supported by **a wide experience in NX integration in different sectors**. At CT, we are committed to the training of our engineers and stakeholders, with a firm commitment to innovation, as is the case with NX software, a state-of-the-art solution for the design of those vessels equipped with the latest technology, unique functions or operating in extreme conditions", says Almudena Casanova, Outfitting & Systems Business Unit Manager at the Narón Site.

Why Siemens NX?

With this training program, CT aims to address **three of the challenges facing shipyards and ship designers** in today's global economy and for which Siemens' NX software represents a powerful and flexible end-to-end solution. On the one hand,

the **digital transformation**: from the conceptual development of the entire ship life cycle, through the engineering, production and on-board testing phases.

Second, **ship lifecycle management**: NX provides an integrated set of tools that coordinates different disciplines, preserves data integrity and design intent, and optimizes the entire process.

Finally, this software provides the solution to the development of a **digital twin** - a virtual representation of a ship that allows individual stages to be synchronized with each other - and enables its full value and benefits to be realized, such as constantly increasing efficiency, minimizing failure rates, shortening life cycles and therefore providing a long-term competitive advantage.

A vast experience in the entire product lifecycle in the naval sector and Siemens' NX specialization is the basis for this training.

"CT offers those interested in this training more than 15 years of experience in the integration of NX software in different sectors. The company has its naval branch distributed in various sites across Europe - Narón, Cartagena and Puerto Real in Spain, Saint-Nazaire and Marseilles in France, Hamburg in Germany and Bristol in the United Kingdom- where it operates in all engineering phases, both in conceptual (architecture and naval engineering) and in basic and detailed engineering (structures, armament and mechanical engineering), in production engineering (production management and planning) and in life cycle engineering (logistics engineering, NATO cataloguing, testing and safety)", explains Almudena Casanova, Outfitting & Systems Business Unit Manager at the Narón Site.

To this end, CT has more than 350 engineers and technicians with extensive experience and highly qualified expertise in all types of ships and trained in the most modern and powerful software tools on the market, such as Siemens' NX, Foran, Nupas Cadmatic, Aveva, AutoCAD, Ansys, Star CCM+, PDS, etc.

Since its beginning, CT has acquired a great experience in the execution of projects of all kind of ships, both military and civil, from aircraft carriers and frigates to tugs or catamarans. This experience has led the company to collaborate with many national



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and international shipyards, such as Navantia, Chantiers de l'Atlantique, Damen or Freire Shipyards, among others.

Currently, CT's naval branch is immersed in the completion of the detailed engineering for the conversion of an offshore vessel into one of the most modern oceanographic vessels in the world, as well as in the national defence projects of the S80P submarine and the modern F110 frigates, and in the AAOR logistical supply vessels for the Royal Australian Navy.

Read more about the training programme:

METHOD: In person at the CT offices in Narón (A Coruña), Cartagena (Murcia) and Seville (Andalusia) and online.

DISCIPLINES: Basic Design, Detail Design, Manufacturing, Mechanical Routing (Piping + HVAC), Electrical Routing, etc.

DURATION: depending on the disciplines to be covered.

ORIENTED: This course is aimed at designers, engineers and industrial engineers who need to manage and use NX in the naval sector.

PREREQUISITES: Knowledge of Windows user level and desire to learn and enjoy.

MORE INFORMATION: Contact via email at: formación@ctingenieros.es.

About CT

CT provides engineering services in the aeronautical, naval, automotive, rail, energy, industrial plants, architecture and construction sectors. CT covers the entire life cycle of the products, from product design engineering, manufacturing engineering to post-sales support engineering. CT has more than 1,700 employees and a network of offices in Spain, France, Germany, Portugal, the United Kingdom, India and Brazil. CT is a supplier of engineering services in design, manufacturing, assembly and maintenance phases for the civil and military sector. CT is the only Spanish supplier of product engineering (E2S) and manufacturing (ME3S) for Airbus in the world and a preferred supplier of engineering for Navantia. Other relevant works stand out, such as the participation of the CT Architecture division in the La Sagrada Familia project or the Automotive Engineering division in the Medina-Mecca AVE.