

IO1653 Occupational Safety Control Engineer - SCOD-013

General information

Job category	Standard
Status	Published
Department	SCOD / Science & Operations Department
Division	SCOD / Control System Division
Section	SCOD / CSD / Plant Control & Instrumentation Section

Job description

Main job	Engineering - Generalist
Title of the position	Occupational Safety Control Engineer - SCOD-013
Job family	Engineer - 2
Grade	P3
Direct employment	Not required
Purpose	<p>To work with the Central Safety System Responsible Officer and contribute to all activities linked to the design of the Central Safety System for Occupational Safety (CSS-OS), the certification of this system as well as the procurement, installation, integration and commissioning of the systems.</p> <p>Together with the Responsible Officer, to ensure that the CSS-OS meets the project requirements and is delivered on time.</p> <p>To manage the contracts linked to the design and procurement of the CSS-OS.</p> <p>To participate in the integration of the different systems composing the Safety Control System for Occupational safety (SCS-OS) by implementing interfaces between the CSS-OS and the plant Instrumentation & Control (I&C) systems involved in occupational safety functions.</p> <p>Background information:</p> <p>The SCS-OS is composed of the CSS-OS and several Plant Safety Systems for Occupational Safety (PSS-OS).</p> <p>The CSS-OS, provided by the CSD Division, participates in the protection of people against conventional safety risks, by monitoring and coordinating PSS-OS which are implementing the occupational safety I&C functions.</p> <p>Participates in the procurement and follow-up of contracts for the Central Safety System for Occupational Safety (CSS-OS);</p> <p>Contributes to the design, acceptance and installation of the CSS-OS, including its technical follow-up;</p> <p>Manages the factory and site acceptance tests for the Safety Control system for Occupational Safety;</p> <p>Participates to working groups in charge of hazards and risks assessment of plant systems in order to identify the occupational safety Instrumentation & Control (I&C) functions;</p> <p>Collaborates with the ITER Security and the Health and Safety division in order to ensure that the Occupational Health & Safety policy is correctly implemented within the CSS-OS;</p> <p>Supports Plant Systems by developing new guidelines and up-to-dating the existing support documentation;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;</p> <p>May be requested to be part of any of the project team and perform other duties upon management request;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p>
Main duties / Responsibilities	<p>Reports to the Plant Control and Instrumentation Section Leader;</p> <p>Participates in the management of procurement contracts and/or support contracts related to the CSS-OS;</p> <p>Interacts frequently with plant system responsible officers within the ITER Organization as well as in the Domestic Agencies;</p> <p>In response to requests from the Director-General and/or the Head of Science and Operations</p>

Measures of effectiveness	Department, or proactively, informs the DG/ the Head of Science and Operations Department of any important and urgent issues that cannot be handled by the concerned line management and may jeopardize the achievement of the Project's objectives.
	<p>Conducts the design of the CSS-OS in respect of the ITER Organization design rules and in compliance with the safety related Instrumentation & Control (I&C) standards;</p> <p>Develops the interfaces between the CSS-OS and plant safety I&C systems which deliver the safety I&C functions;</p> <p>Prepares effectively the validation, installation and commissioning of the SCS-OS;</p> <p>Keeps the documentation up-to-date.</p>
Project Construction Phase	

Applicant criteria

Level of study	Master or equivalent degree
Diploma	Engineering / safety Engineering field or other
Level of experience	At least 8 years
Technical experience/knowledge	Expertise in international safety I&C related standards: IEC 61508, IEC 61511.
	At least 8 years of practical experience in engineering of safety Instrumentation & Control (I&C) systems,
	Proven experience in contract management and in the implementation of the IEC 61508 / IEC 61511 lifecycle,
	Relevant experience in integration of I&C safety systems in large facilities,
	Practical experience in conducting acceptance and commissioning tests of safety related I&C systems;
	Practical experience in the design of large scale heterogeneous safety related I&C systems is considered as an advantage,
Social skills	Relevant experience in RAMI (Reliability, Availability, Maintainability & Inspectability) analyses of safety related systems is considered as an advantage,
	Practical experience in Siemens safety Programmable Logic Control (PLC) platforms/architectures is considered as an advantage.
	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit, Ability to communicate effectively
Languages	English (Fluent)
Others	Excellent computer and IT skills are mandatory