

IO1921 Cable Engineering Technician - PED-144-148

General information

Job category	Standard
Status	Published
Department	PED / Plant Engineering Department
Division	PED / Electrical Engineering Division
Section	PED / EED / Cable Management Sub-Section

Job description

Main job	Engineering - Electricity
Title of the position	Cable Engineering Technician - PED-144-148
Job family	Coordinating Technician
Grade	G5
Direct employment	Not required
Purpose	<p>Two openings</p> <p>To design the cable trays of the ITER site and execute the cable engineering tasks (cable diagram production, cable routing, cable tray network design and cable termination) for the ITER facility, including the following of external contractors.</p> <p>To execute engineering activities required to support the construction team, including monitoring and verification of the onsite construction works.</p> <p>To assure in field design changes as well as in field deviation requests resolution to support with continuity installation activities of cables and cables trays.</p>
Main duties / Responsibilities	<p>-Develops drawing and 3D models of the cable tray network (trays, conduits, supports) with the Standard ITER tools (CATIA), including the associated mechanical supports and accessories;</p> <p>-Performs Cable Engineering activities, using the ITER standard software tools for the cable design and routing, and cable tray design workflow;</p> <p>-Ensures that quality assurance, and safety requirements are implemented in all phase of cable engineering activities;</p> <p>-Assure full design of cables trays and cables routing compatible with Plant lay out, producing all the required output to assure production of Engineering Work Packages;</p> <p>-Monitors the work delivered through the Cable Engineering contracts, covering procurement, data gathering, time schedule, deliverables issues.</p> <p>-Follows up the execution of works related to the installation of cable and cable trays, and manages Field Change Requests, Non Conformities, Deviation Requests, and other issues triggered during the on-site erection activities;</p> <p>-Measures on the field the cables and termination (continuity, isolation, reflectometry, etc);</p> <p>-Operates the Direct Current magnetic test facility and other Electro Magnetic Compatibility (EMC) tests, including the production of the associated test reports;</p> <p>-Manages the interfaces with the cable users, in order to collect the appropriate data for the cable design and execution workflows;</p> <p>-May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays;</p> <p>-Implements the technical control of the Protection Important Activities, as well as their propagation to the entire supply chain;</p> <p>-May be requested to be part of any of the project/construction teams and to perform other duties in support of the project schedule;</p> <p>-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>-Under the Supervision of the Cable Engineer and the Cable Management Sub-Section Leader, reports to the Electrical Engineering Division Head;</p> <p>-In response to requests from the Director-General and/or PED Head, or proactively, informs the DG/PED Head 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> <p>-Completes the cable routing in a timely manner and within the foreseen time schedule, quality and cost;</p>

Measures of effectiveness	<ul style="list-style-type: none"> -Completes the cable tray drawings and 3D models in a timely manner, exploiting all cable engineering guidelines and design documents; -Completes the design verification of plates in the Tokamak complex, in accordance with foreseen work plan, controlling the proper implementation of quality assurance and other safety requirements; -Provides an effective cable field engineering support necessary to complete the installation activities in a timely manner and within the defined quality & costs.
	Project Construction Phase

Applicant criteria

Level of study	Post-Secondary or Bachelor degree
Diploma	Electrical Engineering or other discipline
Level of experience	At least 10 years
Technical experience/knowledge	<ul style="list-style-type: none"> -Good knowledge in modelling cable trays and supports in CATIA or similar 3D editor/solid modelling software tool. -At least 10 years' experience in the field of / or related to in cable engineering and installation (cable diagram production, cable routing, cable tray design); -Good experience in the engineering design and installation of electrical systems; -Good experience in testing cables on the field; -Field Experience (cable pulling or cable tray installation and/or supervision) would be considered an advantage; -Extensive experience in similar jobs (involving similar work responsibilities) and/or additional training certificates in relevant domains may be considered a reasonable substitute for the required educational degree.
Social skills	<p>Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit</p> <ul style="list-style-type: none"> -Ability to facilitate dialogue with a wide variety of contributors and stakeholders; -Ability to analyze multiple and diverse sources of information to define problems accurately within the defined schedule;
General skills	<ul style="list-style-type: none"> -Ability to work under deadline pressures; -Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.
Languages	English (Fluent)
Specific skills	CATIA, MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	<ul style="list-style-type: none"> -Good knowledge of CATIA or a similar software tool; -Good knowledge of Microsoft suite; -Good knowledge of cable diagram software tools.