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| **JOB DESCRIPTION** | |
| **Job Title** | CAD Design Engineer |
| **Job Purpose** | Responsible for the design, manufacture and development of water and effluent treatment systems across the Siltbuster Group. |
| **Business Unit/Dept** | Siltbuster |
| **Reporting to** | Design and Production Engineer |
| **Line Management Responsibility** | Yes  No |
| **Budget Responsibility** | Yes  No |
| **Accountability Level**  *(service delivery performance, quality & safety of people & product/service, compliance with rules, standards and legislation, continuous improvement, reporting and strategy)* | Individual level  Team or function supervisory / management level  Department management level  Senior management / company level |

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| 1. **ESSENTIAL DUTIES AND RESPONSIBILITIES**   *The basic, important duties to be performed in the role* |
| **General**   * The detailed design and development of new and existing products including structural and loading details. * Ensure that sufficient build lists and assembly information is available for the supply chain and workshop teams. * Undertake inspection of units in fabrication to ensure unit is to specification and quality standards. * Undertake site inspections for pre-installation and design development. * Work with the project and workshop teams in the production of conceptual designs, calculations, site layouts, pipeline arrangements, etc. * Ensure detailed and accurate drawings are made and maintained in line with company systems and standards around document control. * Work in line with financial governance controls for raising orders and stock control purposes. * Production of Design Risk Assessments and H&S considerations in the design, build and operation of the plant. * Assist with ensuring that operation and maintenance manuals and supporting documentation is completed for projects and production.   **Quality, Health, Safety, Environment**   * Apply sound engineering practice and conduct effective health and safety practices throughout duties * Assess job tasks identifying hazards, mitigating risks and solving operational issues * Wear and always maintain appropriate protective safety equipment for role and activities * Report any matters affecting health, safety and environment immediately to the line manager * Ensure any waste materials are disposed of appropriately * Maintaining a clean, tidy and organised work area * Support the implementation and improvement of relevant standards and specifications for Company equipment, installation and other relevant business processes * Proactively develop own knowledge and skills   **People and Teamwork**   * Working effectively within a team environment and contribute positively and assist others when needed * Proactively collaborate with colleagues in the interest of the Company as a whole * Help achieve good customer service and satisfaction through activities and regular communication * Work closely with project delivery and workshop teams to provide electrical design services and proactively develop electrical test plans. * Positively contribute to a team spirit, providing support to others when needed including provision of cover for team members in their absence   **Financial**  Contribute to the financial strength of the Company by;   * Operating in an efficient, effective manner to achieve goals and targets * Re-use of fittings and parts that are still viable rather than taking new from the stores (applies mostly to hire kit) * The main responsibilities are outlined above but this not a definitive list and other tasks / activities may be necessary commensurate with this post. |
| 1. **KNOWLEDGE**   *Information, facts and practical understanding of required subject areas for role* |
| * Process engineering design with ability to read, understand and work from Process and Instrument designs * Knowledge and awareness of current legislation affecting design, control and implementation of water treatment systems * Able to read and understand detailed control philosophies * Understanding of ISO 14001 and 9001:2015 standards and appropriate Health, Safety environmental legislation * Some understanding on process commissioning |
| 1. **SKILLS**   *Areas of ability and task or activity competency to perform role successfully* |
| * Full UK Driving License * Competent in the design, build, testing, installation and commissioning of water treatment equipment * Excellent written and verbal communication skills * Ability to quickly learn new skills * Fluent working knowledge of IT packages including AutoCAD, Solids Works, Microsoft Office |
| 1. **EXPERIENCE AND CERTIFICATIONS**   *Level of time, involvement in, training and/or exposure to gain required experience in the role and or/subject area, and evidence of this* |
| * HNC or equivalent in Engineering * Good working knowledge of solid works * At least 2 years previous experience of working within a design engineering environment and demonstrate proven design experience |
| 1. **PERSONAL QUALITIES**   *General disposition / personal characteristics, work ethic, and moral values.* |
| * Self-motivated with a can-do attitude * Strong attention to detail * Problem solving * Able to work under own supervision and as part of a team * Must be flexible and adaptable to constantly changing priorities and issues * Able to follow instruction thoroughly and diligently * Professional appearance and presentation to clients * Comfortable working unsocial hours on occasion * Customer focused (internal and external) - awareness of the needs of others * Acts with integrity |