

# R.K. INTERNATIONAL - REQUIREMENTS FOR SAUDI ARABIA

## REQUIRED FOR THE LARGEST CONSTRUCTION CO. IN SAUDI ARABIA

| S. No | Job                    | Minimum Qualifications  | Experience in years | Minimum Experience in field  |
|-------|------------------------|---|---------------------|--|
| 1     | Contract Manager       | B.Sc. or M.Sc. in Business Administration OR Management from a fully accredited and reputed University; OR alternate qualification, B.Sc. in the discipline field together with diploma/certificate business administration and/or management from a fully accredited and reputed University or approved institution.   | 8                   | Must have experience in effective decision making, accounting, administration, human resource personnel management, contract administration and data processing. Must also have good interpersonal skills and leadership ability, with proven track record in developing people, work and task planning, effective communications, cost effectiveness, team building, developing initiatives and excellent job knowledge. Must show good behavioral learning, job flexibility, and analytical nature.  |
| 2     | Safety Officer/Adviser | B.Sc. in Safety Engineering or Occupational Safety from a fully accredited and reputed University; OR alternate qualification, B.Sc. in Chemical, Civil, Mechanical, or Electrical Engineering, from a fully accredited and reputed University, together with internationally accredited diploma/certification in Safety Engineering or Occupational Safety [OSHA or NEBOSH]. | 8                   | Must have experience in the development, oversight and coordination of operational safety programs. Must have experience in occupational safety in the constructions and/or maintenance field, and be familiar with risk management and management of change procedures. Must be able to write safety evaluation and inspection reports to a professional standard, and must be capable of thorough incident investigation and determining causal factors using root cause analysis. Must be knowledgeable of work permit procedures and safety procedures used in hazardous environments, and be familiar with international safety codes. Must be familiar with HAZCOM and HAZMAT. Must also have experience in planning and scheduling. |

|   |                   |   |   |  |
|---|-------------------|---|---|--|
| 3 | Safety Trainer    | B.Sc. in Safety Engineering or Occupational Safety from a fully accredited and reputed University; OR alternate qualification, B.Sc. in Chemical, Civil, Mechanical, or Electrical Engineering, from a fully accredited and reputed University, together with internationally accredited diploma/certification in Safety Engineering or Occupational Safety [OSHA or NEBOSH]; plus a trainer or instructor certificate or diploma from an approved institution or reputed university. | 8 | Must have experience in the development, oversight and coordination of operational safety programs. Must have experience in delivering occupational safety training in the constructions and/or maintenance field, and risk management and management of change procedures. Must be able to teach effective methods of writing safety evaluation and inspection reports to a professional standard, and thorough incident investigation and determining causal factors using root cause analysis. Must be knowledgeable of work permit procedures and safety procedures used in hazardous environments, and be familiar with international safety codes. Must be able to teach HAZCOM, HAZMAT, BLS [first aid, CPR and AED's], and the safe use of fire extinguishers. Must also have experience in planning and scheduling. |
| 4 | Housing Inspector | Associate Degree in Civil, Mechanical or Electrical Engineering, from a fully accredited and reputed University, together with a building inspector certificate or license from an approved institution in the candidate's home country.  | 4 | Must have experience in the inspection of buildings and facilities in civil, and/or mechanical, and/or electrical engineering disciplines. Must have knowledge of and be able to interpret IBC and other international building, mechanical and electrical [NEC] codes. Must be able to follow proper inspection techniques and examine workmanship and materials, to detect deviations from codes, specifications and approved construction and maintenance practices. Must also have experience in planning and scheduling.  |
| 5 | Foreman Inspector | Associate Degree in Civil, Mechanical or Electrical Engineering, from a fully accredited and reputed University, together with a building inspector certificate or license from an approved institution in the candidate's home country.  | 8 | Must have experience in the inspection of buildings and facilities in civil, and/or mechanical, and/or electrical engineering disciplines. Must have knowledge of and be able to interpret IBC and other international building, mechanical and electrical [NEC] codes, and at least 40% must be in a supervisory position. Must be able to follow proper inspection techniques and examine workmanship and materials, to detect deviations from codes, specifications and approved construction and maintenance practices. Must also have experience in planning and scheduling.  |

|   |                         |   |   |  |
|---|-------------------------|---|---|--|
| 6 | HVAC Technician         | Diploma or Trade Certificate from an approved vocational training center and/or four (4) year apprenticeship. | 4 | <p>Must have experience in installation, maintenance and repair of chilled water and direct expansion HVAC and refrigeration equipment. Shall be able to read and understand equipment diagrams and maintenance manuals, knowledge of international HVAC codes and standards. Must have a good experience in AC ductwork installation, preventive maintenance (PM) of HVAC and refrigeration equipment, electrical and mechanical trouble shooting, welding and brazing of gas lines, and recharging refrigerant. Must also have knowledge of complex automated refrigeration equipment, including blood bank refrigeration in hospital facilities, as well as ice machines, walk-in chillers, retail display chillers, and water coolers. Shall have a good knowledge of air distribution balancing in system ductwork, including fixed and variable volume dampers, together with digital temperature and environmental instrumentation controls and other associated devices.</p>   |
| 7 | Foreman HVAC Technician |   | 8 | <p>Must have experience in installation, maintenance and repair of chilled water and direct expansion HVAC and refrigeration equipment, at least 40% must be in a supervisory position. Shall be able to read and understand equipment diagrams and maintenance manuals, knowledge of international HVAC codes and standards. Must have a good experience in AC ductwork installation, preventive maintenance (PM) of HVAC and refrigeration equipment, electrical and mechanical trouble shooting, welding and brazing of gas lines, and recharging refrigerant. Must also have knowledge of complex automated refrigeration equipment, including blood bank refrigeration in hospital facilities, as well as ice machines, walk-in chillers, retail display chillers, and water coolers. Shall have a good knowledge of air distribution balancing in system ductwork, including fixed and variable volume dampers, together with digital temperature and environmental instrumentation controls and other associated devices. Must also have experience in planning and scheduling.</p> |

|    |                                |  |   |   |
|----|--------------------------------|--|---|---|
| 8  | Industrial Electrician         | Diploma or Trade Certificate from Vocational Training Center or Four (4) years apprenticeship.       | 4 | Must have experience in installation and maintenance of electrical distribution and lighting systems in buildings and facilities, three phase and single phase up to 1000 volts, and the installation, overhaul, repair and maintenance of all types of motors and generators up to 600KVA and can perform load test. Must be able to trouble shoot, diagnose, repair and maintain emergency generators and other electrical equipment and can read and understand maintenance manuals and drawings. Must have experience in electrical preventive maintenance (PM), basic load calculation and load balancing, panel boards, overcurrent protection and ground fault detection equipment, arc flash prevention and electrical safety. Must be conversant with US National Electrical Code (NEC).   |
| 9  | Foreman Industrial Electrician | Diploma or Trade Certificate from Vocational Training Center or Four (4) years apprenticeship.       | 8 | Must have experience in installation and maintenance of electrical distribution and lighting systems in buildings and facilities, three phase and single phase up to 1000 volts, and the installation, overhaul, repair and maintenance of all types of motors and generators up to 600KVA and can perform load test, at least 40% must be in a supervisory position. Must be able to trouble shoot, diagnose, repair and maintain emergency generators and other electrical equipment and can read and understand maintenance manuals and drawings. Must have experience in electrical preventive maintenance (PM), basic load calculation and load balancing, panel boards, overcurrent protection and ground fault detection equipment, arc flash prevention and electrical safety. Must be conversant with US National Electrical Code (NEC). Must also have experience in planning and scheduling. |
| 10 | Machinist                      | Have a Diploma or Trade Certificate from Vocational training unit with full apprenticeship training. | 4 | Must have experience operate all kinds of machine tools such as shapers, guiders, drill presses, milling machines and lathe machines. Shall be able to assemble and disassemble equipment and replace parts and fabricate and repair parts such as shafts, bearing, pulleys, couplings, gears and valve seats. Shall be able to read drawings and specifications to determine requirements and tolerances before fabrication of machined parts.   |

|    |                                |  |   |  |
|----|--------------------------------|--|---|--|
| 11 | Foreman Machinist              | Have a Diploma or Trade Certificate from Vocational training unit with full apprenticeship training.                         | 8 | Must have experience operate all kinds of machine tools such as shapers, guiders, drill presses, milling machines and lathe machines, at least 40% must be in a supervisory position. Shall be able to assemble and disassemble equipment and replace parts and fabricate and repair machined parts such as shafts, bearing, pulleys, couplings, gears and valve seats. Shall be able to use micrometer read drawings and specifications to determine requirements and tolerances before fabrication of machined parts. Must also have experience in planning and scheduling.                  |
| 12 | Electronics Technician         | Associate Degree or diploma in Electronics Communication or Engineering, from an approved institution or reputed university. | 4 | Must be experienced installation, repair, operation, and maintenance of electronic equipment and digital systems. Must have knowledge of programmable digital controllers and devices, networked automated systems, modem devices, leading industry operating software, and basic programming techniques and device configuration. Must be able to read drawings/diagrams and can identify system component parts. Must be able to use VOM, oscilloscope and other logic test equipment.   |
| 13 | Foreman Electronics Technician | Associate Degree or diploma in Electronics Communication or Engineering, from an approved institution or reputed university  | 8 | Must be experienced installation, repair, operation, and maintenance of electronic equipment and digital systems, at least 40% must be in a supervisory position. Must have knowledge of programmable digital controllers and devices, networked automated systems, modem devices, leading industry operating software, and basic programming techniques and device configuration. Must be able to read drawings/diagrams and can identify system component parts. Must be able to use VOM, oscilloscope and other logic test equipment. Must also have experience in planning and scheduling. |

|    |                               |  |   |   |
|----|-------------------------------|--|---|---|
| 14 | Fire Alarm Technician         | Associate Degree or diploma in Electronics Communication or Engineering, or Fire Alarm Technology, from an approved institution or reputed university. | 4 | Must have experience in trouble shooting, installation, repairs maintenance, and commissioning of analogue addressable and conventional, automatic fire detection and alarm systems. Must be conversant with leading fire alarm industry equipment such as Honeywell, Simplex, Siemens and Pyrotronics etc. Must be able to use VOM, oscilloscope and other logic test equipment. Must be able to read drawings/diagrams and can identify all fire detection and alarm system component parts. Shall be licensed from a major fire alarm manufacturer to configure & reconfigure and program addressable devices on the system to level III.  |
| 15 | Foreman Fire Alarm Technician | Associate Degree or diploma in Electronics Communication or Engineering, or Fire Alarm Technology, from an approved institution or reputed university. | 8 | Must have experience in trouble shooting, installation, repairs maintenance, and commissioning of, analogue addressable and conventional, automatic fire detection and alarm systems, at least 40% must be in a supervisory position. Must be conversant with leading fire alarm industry equipment such as Honeywell, Simplex, Siemens and Pyrotronics etc. Must be able to use VOM, oscilloscope and other logic test equipment. Must be able to read drawings/diagrams and can identify all fire detection and alarm system component parts. Shall be licensed from a major fire alarm manufacturer to configure & reconfigure and program addressable devices on the system to level III. Must also have experience in planning and scheduling. |
| 16 | Utilities Plant Operator      | Have a Diploma or Trade Certificate from Vocational training unit with full apprenticeship training.   | 4 | Must have experience in operation and maintenance of municipal wastewater treatment plants, including monitoring and directing plant operation and/or experience in operation and maintenance of raw water and drinking water, wastewater treatment plant and other water and utility systems. Shall have a good knowledge and understanding of the physical, chemical, and biological processes, equipment, control parameters and laboratory procedures, in municipal wastewater treatment and/or water treatment.  |

|    |  |  |   |  |
|----|--|--|---|--|
| 17 | Foreman Utilities Plant Operator       | Have a Diploma or Trade Certificate from Vocational training unit with full apprenticeship training.   | 8 | Must have experience in operation and maintenance of municipal wastewater treatment plants, including monitoring and directing plant operation, and/or experience in operation and maintenance of raw water and drinking water, wastewater treatment plant and other water and utility systems, at least 40% must be in a supervisory position. Shall have a good knowledge and understanding of the physical, chemical, and biological processes, equipment, control parameters and laboratory procedures, in municipal wastewater treatment and/or water treatment. Must also have experience in planning and scheduling.  |
| 18 | Medical Maintenance Technician         | Diploma from a vocational training school or associate degree with major specialization in instrumentation, electrical or electronics maintenance. | 5 | Must have experience in the repairs, trouble shooting and installation of hospital medical equipment. This needs to include steam/hot air/ETO sterilization, programmable patient beds, programmable operating tables & delivery system, programmable dental chairs & delivery system, automatic X-ray film processors, X-ray film duplicators, autoclave, centrifuges, bacteria incubators etc. Specialization must electrical, electronic, mechanical or instrumentation. Shall be able to read and understand schematic diagram and can operate, test and trouble shoot bio-medical and electronic hospital equipment. Must be fully conversant with U.S. National Electrical Codes (NEC), JICIA and related codes and standards.   |
| 19 | Foreman Medical Maintenance Technician | Diploma from a vocational training school or associate degree with major specialization in instrumentation, electrical or electronics maintenance. | 9 | Must have experience in the repairs, trouble shooting and installation of hospital medical equipment, at least 40% must be in a supervisory position. This needs to include steam/hot air/ETO sterilization, programmable patient beds, programmable operating tables & delivery system, programmable dental chairs & delivery system, automatic X-ray film processors, X-ray film duplicators, autoclave, centrifuges, bacteria incubators etc. Specialization must electrical, electronic, mechanical or instrumentation. Shall be able to read and understand schematic diagram and can operate, test and trouble shoot bio-medical and electronic hospital equipment. Must be fully conversant with U.S. National Electrical Codes (NEC), JICIA and related codes and standards. |

|    |                              |  |   |   |
|----|------------------------------|--|---|---|
| 20 | Lifeguard                    | High School Diploma or approved equivalent, with Red Cross Lifeguard Training Certificate or approved equivalent, and with valid approved BLS [basic life safety – CPR and First Aid] and AED [automatic electronic defibrillator] certification.  | 4 | Must have experience in proactive supervision of swimmers and other water recreation activities such as boating and sailing, at swimming pools and beaches, and the enforcement of water safety rules. Must be familiar with water recreation maintenance, water treatment and testing procedures. Must be conversant with swimming pool and beach operating procedures.  |
| 21 | Foreman Lifeguard            | High School Diploma or approved equivalent, with Red Cross Lifeguard Training Certificate or approved equivalent, and with valid approved BLS [basic life safety – CPR and First Aid] and AED [automatic electronic defibrillator] certification, plus approved Life Guard Trainer/Assessor certificate. | 8 | Must have experience in proactive supervision of swimmers and other water recreation activities such as boating and sailing, at swimming pools and beaches, and the enforcement of water safety rules, at least 40% must be in a supervisory position. Must be familiar with water recreation maintenance, water treatment and testing procedures. Must be conversant with swimming pool and beach operating procedures. Must also have experience in planning and scheduling.  |
| 22 | Electrician [Building Trade] | Have a Diploma or Trade Certificate from Vocational training unit with full apprenticeship training.   | 4 | Must have experience in installation and maintenance of electrical distribution and lighting systems in buildings, three phase and single phase up to 240 volts. Must be able to trouble shoot, diagnose, repair and maintain electrically powered equipment and can read and understand maintenance manuals and drawings. Must have experience in electrical preventive maintenance (PM), basic load calculation and load balancing, panel boards, overcurrent protection and ground fault detection equipment, arc flash prevention and electrical safety. Must be conversant with US National Electrical Code (NEC). |



|    |                            |  |   |  |
|----|----------------------------|--|---|--|
| 23 | Carpenter [Building Trade] | Have a Diploma or Trade Certificate from Vocational training unit with full apprenticeship training. | 4 | Must have experience in various finishing carpentry, construction and maintenance works. Must be able to repair, maintain and install all carpentry work and related items including, but not limited to, fabricating and placing form work and ceiling insulation; installation of ceiling joints and roof rafters, covering floors with vinyl tiles; fabricating and installing doors and window frames and their related hardware; glazing windows; and carrying out alterations and modifications of residential houses, offices and public buildings. Must be able to read and understand basic drawings.                                       |
| 24 | Plumber [Building Trade]   | Have a Diploma or Trade Certificate from Vocational training unit with full apprenticeship training. | 4 | Must be experienced in installation, maintenance and repair of plumbing installations. Must have good knowledge in assembling, installing and maintaining plastic and metal pipe systems, pipe supports, and related hydraulic and pneumatic equipment. Must be familiar in using various types of tools and equipment for plumbing/pipefitting works, such as saw, pipe cutter, cutting torch, pipe cutting machines, threading machines, bending machines and others. Must have a good knowledge of plumbing codes and standards and good knowledge of carbon steel, PVC, CPVC pipes and fittings. Shall be able to understand technical drawings. |
| 25 | Mason [Building Trade]     | Have a Diploma or Trade Certificate from Vocational training unit with full apprenticeship training. | 4 | Must be experienced laying concrete block, brick and stone for walls, foundations and other structures, including cast in place reinforced concrete for floors, walls, sidewalks curbs, beams, columns, and panels and other structures. Must also be experienced in tile laying and leveling, expansion joints and formwork. Must be able to use all mason hand tools and all types of power tools such as cutter, drill, compactor, mixer etc.   |

|    |                        |  |    |   |
|----|------------------------|--|----|---|
| 26 | Foreman Building Trade | Have a Diploma or Trade Certificate from Vocational training unit with full apprenticeship training.   | 4  | Must have experience in electrical, mechanical, civil construction and maintenance works, and at least 40% must be in a supervisory position. Must be able to guide the activities of construction and maintenance personnel to ensure complete and satisfactory performance of work. Must possess good leadership and supervisory skills and be self-motivated. Shall be able to read and understand engineering design drawings, scopes of work, and be fully conversant with applicable construction codes and maintenance standards. Must also have experience in planning and quality control.   |
| 27 | Entomologist           | B.Sc. in Agriculture OR Entomology OR other Biological Science with a major OR core curriculum in Entomology from a fully accredited and reputed University. | 8  | Must have experience in urban pest control, related directly to elimination of insects and rodents, in and around buildings and facilities. Must be knowledgeable in insect and rodent species and their relation to plant life and animal life, and the injurious affects on humans. Must be able to identify and classify various local species of insects and allied forms, such as mites and spiders. Must be conversant in safe and environmentally friendly methodologies to control insect and rodent pests, using approved pesticides, cultural and biological methods, including the natural enemies of pests, to prevent the spread of injurious species.   |
| 28 | Senior Entomologist    | B.Sc. in Agriculture OR Entomology OR other Biological Science with a major OR core curriculum in Entomology from a fully accredited and reputed University. | 12 | Must have experience in urban pest control, related directly to elimination of insects and rodents, in and around buildings and facilities, and at least 40% must be in a supervisory position. Must be knowledgeable in insect and rodent species and their relation to plant life and animal life, and the injurious affects on humans. Must be able to identify and classify various local species of insects and allied forms, such as mites and spiders. Must be conversant in safe and environmentally friendly methodologies to control insect and rodent pests, using approved pesticides, cultural and biological methods, including the natural enemies of pests, to prevent the spread of injurious species. |

|    |                       |  |    |  |
|----|-----------------------|--|----|--|
| 29 | Civil Engineer        | B.Sc. in Civil Engineering from a fully accredited and reputed University.     | 8  | Must have experience in civil construction and maintenance of residential, office and light industrial facilities. Must be experienced in project management related to building construction, design, engineering and on-site construction & maintenance projects and good knowledge in surveying and site setting out. Must be well versed with IBC building codes, plumbing codes and other US or European building codes. Must also have experience in planning, programming, estimating, scheduling and quality control.  |
| 30 | Senior Civil Engineer | B.Sc. in Civil Engineering from a fully accredited and reputed University.     | 12 | Must have experience in civil construction and maintenance of residential, office and light industrial facilities. Must be experienced in project management related to building construction, design, engineering and on-site construction & maintenance projects and good knowledge in surveying and site setting out, and at least 40% must be in a supervisory position. Must be well versed with IBC building codes, plumbing codes and other US or European building codes. Must also have experience in planning, programming, estimating, scheduling and quality control.  |
| 31 | Structural Engineer   | B.Sc. in Structural Engineering from a fully accredited and reputed University | 8  | Must be experienced in structural design and calculation analysis, used in the construction of buildings, facilities and structures. Must have a thorough knowledge of civil and structural design and engineering techniques, be able to plan and conduct engineering evaluation, selection, application and adaptation of engineering techniques, procedures and criteria. Be able to devise new design approaches to problems, and prepare or modify drawings, specifications, calculations, charts and graphs, and monitor work for compliance to applicable codes, accepted engineering practices and IBC building and other international structural codes. Must be able to use leading industry structural design and analysis software programs. Must also have experience in planning, programming, estimating, scheduling and quality control. |

|    |                            |  |    |   |
|----|----------------------------|--|----|---|
| 32 | Senior Structural Engineer | B.Sc. in Structural Engineering from a fully accredited and reputed University, and with current PE (professional engineer) or Chartered Engineer status from an approved institution in the candidate's home country. | 12 | <p>Must be experienced in structural design and calculation analysis, used in the construction of buildings, facilities and structures, and at least 40% must be in a supervisory position. Must have a thorough knowledge of civil and structural design and engineering techniques, be able to plan and conduct engineering evaluation, selection, application and adaptation of engineering techniques, procedures and criteria. Be able to devise new design approaches to problems, and prepare or modify drawings, specifications, calculations, charts and graphs, and monitor work for compliance to applicable codes, accepted engineering practices and IBC building and other international structural codes. Must be able to use leading industry structural design and analysis software programs. Must also have experience in planning, programming, estimating, scheduling and quality control.</p> |
| 33 | Mechanical Engineer        | B.Sc. in Mechanical Engineering from a fully accredited and reputed University.  | 8  | <p>Must have experience in installation and maintenance, or design, in HVAC systems, above and below ground pipework, hot &amp; cold water systems and tank storage, water pumps and associated controls. Must be competent and qualified in cooling &amp; heating calculations, perform psychometric analysis, design of air distribution systems, water distribution, sizing and selection of equipment and develop control schemes; must be fully conversant with ASHRAE and other HVAC industry standards, IBC plumbing &amp; mechanical codes, and other U.S. and European plumbing &amp; mechanical codes. Must be able to use leading industry software calculation programs, and be knowledgeable in balancing air distributing, water distribution and interpreting records. Must also have experience in planning, programming, estimating, scheduling and quality control.</p>                           |

|    |                            |   |    |  |
|----|----------------------------|---|----|--|
| 34 | Senior Mechanical Engineer | B.Sc. in Mechanical Engineering from a fully accredited and reputed University. | 12 | Must have experience in installation and maintenance, or design, in HVAC systems, above and below ground pipework, hot & cold water systems and tank storage, water pumps and associated controls, and at least 40% must be in a supervisory position. Must be competent and qualified in cooling & heating calculations, perform psychometric analysis, design of air distribution systems, water distribution, sizing and selection of equipment and develop control schemes; must be fully conversant with ASHRAE and other HVAC industry standards, IBC plumbing & mechanical codes, and other U.S. and European plumbing & mechanical codes. Must be able to use leading industry software calculation programs, and be knowledgeable in balancing air distributing, water distribution and interpreting records. Must also have experience in planning, programming, estimating, scheduling and quality control. |
| 35 | Electrical Engineer        | B.Sc. in Electrical Engineering from a fully accredited and reputed University. | 8  | Must have experience in installation and maintenance, or design, of electrical distribution and lighting systems in buildings three phase and single phase up to 1000 volts. Must have experienced in load calculations, load balancing, overcurrent protection and ground fault detection, arc flash calculations and arc flash prevention, and lighting calculations. Must be fully conversant with US National Electrical Code and international electrical codes. Must be able to use leading industry electrical software calculation programs. Must also have experience in planning, programming, estimating, scheduling and quality control.   |
| 36 | Senior Electrical Engineer | B.Sc. in Electrical Engineering from a fully accredited and reputed University. | 12 | Must have experience in installation and maintenance, or design, of electrical distribution and lighting systems in buildings three phase and single phase up to 1000 volts, and at least 40% must be in a supervisory position. Must have experienced in load calculations, load balancing, overcurrent protection and ground fault detection, arc flash calculations and arc flash prevention, and lighting calculations. Must be fully conversant with US National Electrical Code and international electrical codes. Must be able to use leading industry electrical software calculation programs. Must also have experience in planning, programming, estimating, scheduling and quality control.   |

|    |                          |   |    |   |
|----|--------------------------|---|----|---|
| 37 | Chemical Engineer        | B.Sc. in Chemical Engineering OR Industrial Chemistry OR Water Treatment Technology from a fully accredited and reputed University. | 8  | Must have experience in chemical engineering laboratory and analysis work, raw/drinking water product analysis, sewage water treatment and advanced wastewater treatment, water analysis, familiar with AC plant water treatment analysis and other laboratory analysis. Must be competent and qualified to perform complex tests on water, wastewater and be able to apply the fundamentals of chemistry, physics, biology and science. Must be familiar with associated laboratory equipment and be able to perform simple repair and maintenance of the equipment. Must be able to prepare reports, charts, compile data and analysis. Must also have experience in planning, programming, estimating, scheduling and quality control.   |
| 38 | Senior Chemical Engineer | B.Sc. in Chemical Engineering OR Industrial Chemistry OR Water Treatment Technology from a fully accredited and reputed University. | 12 | Must have experience in chemical engineering laboratory and analysis work, raw/drinking water product analysis, sewage water treatment and advanced wastewater treatment, water analysis, familiar with AC plant water treatment analysis and other laboratory analysis, and at least 40% must be in a supervisory position. Must be competent and qualified to perform complex tests on water, wastewater and be able to apply the fundamentals of chemistry, physics, biology and science. Must be familiar with associated laboratory equipment and be able to perform simple repair and maintenance of the equipment. Must be able to prepare reports, charts, compile data and analysis. Must also have experience in planning, programming, estimating, scheduling and quality control. |

|    |                                     |   |    |   |
|----|-------------------------------------|---|----|---|
| 39 | Water Engineer [Hydrologist]        | B.Sc. in Hydrology OR Water Engineering Management OR Water Resources Engineering from a fully accredited and reputed University. | 8  | Must have experience in designing and operation of wastewater networks, sewage treatment, potable water supply networks. Must be familiar with water leak detection and management, pipework materials and corrosion prevention, potable water extraction and water wells, potable water treatment, continuous water quality monitoring, RO plants, water pumping stations, water storage tanks, sewage lift stations, catch ponds, environmental management, and water related ground works. Must also have experience in planning, programming, estimating, scheduling and quality control.   |
| 40 | Senior Water Engineer [Hydrologist] | B.Sc. in Hydrology OR Water Engineering Management OR Water Resources Engineering from a fully accredited and reputed University. | 12 | Must have experience in designing and operation of wastewater networks, sewage treatment, potable water supply networks, and at least 40% must be in a supervisory position. Must be familiar with water leak detection and management, pipework materials and corrosion prevention, potable water extraction and water wells, potable water treatment, continuous water quality monitoring, RO plants, water pumping stations, water storage tanks, sewage lift stations, catch ponds, environmental management, and water related ground works. Must also have experience in planning, programming, estimating, scheduling and quality control. |

|    |                          |  |   |  |
|----|--------------------------|--|---|--|
| 41 | Fire Protection Engineer | <p>B.Sc. in Fire Engineering, OR Fire Protection, OR Fire Safety Engineering, OR Fire Safety Science; alternate qualification B.Sc. in Electrical OR Mechanical Engineering, with a post-graduate certificate/diploma OR M.Sc. in Fire Engineering OR Fire Protection, OR Fire Safety Engineering; from a fully accredited and reputed University.</p> | 8 | <p>Must be experienced in the installation, maintenance and design, of electrical and mechanical fire protection systems, in buildings and facilities. Must have a thorough fire safety engineering techniques, be able to plan and conduct engineering evaluation, selection, application and adaptation of engineering techniques, procedures and criteria. Must have a full knowledge of fire sprinkler systems, fire water systems, fire hydrants, fire hoses, fire pumps, gaseous fire suppression systems, wet chemical fire suppression systems, foam fire suppression systems, analogue addressable fire detection &amp; alarm systems, emergency and exit lights, and passive fire protection measures. Must be able to devise new design approaches to problems, and prepare or modify drawings, specifications, calculations, charts and graphs, and monitor work for compliance to applicable codes, accepted engineering practices and NFPA and IBC fire codes. Must be able to use leading industry fire protection software calculation programs. Must also have experience in planning, programming, estimating, scheduling and quality control.</p> |
|----|--------------------------|--|---|--|



|    |                                 |   |    |   |
|----|---------------------------------|---|----|---|
| 42 | Senior Fire Protection Engineer | B.Sc. in Fire Engineering, OR Fire Protection, OR Fire Safety Engineering, OR Fire Safety Science; alternate qualification B.Sc. in Electrical OR Mechanical Engineering, with a post-graduate certificate/diploma OR M.Sc. in Fire Engineering OR Fire Protection, OR Fire Safety Engineering; from a fully accredited and reputed University; and with current PE (professional engineer) or Chartered/Incorporated Engineer status from an approved institution in the candidate's home country. | 12 | Must be experienced in the installation, maintenance and design, of electrical and mechanical fire protection systems, in buildings and facilities, and at least 40% must be in a supervisory position. Must have a thorough fire safety engineering techniques, be able to plan and conduct engineering evaluation, selection, application and adaptation of engineering techniques, procedures and criteria. Must have a full knowledge of fire sprinkler systems, fire water systems, fire hydrants, fire hoses, fire pumps, gaseous fire suppression systems, wet chemical fire suppression systems, foam fire suppression systems, analogue addressable fire detection & alarm systems, emergency and exit lights, and passive fire protection measures. Must be able to devise new design approaches to problems, and prepare or modify drawings, specifications, calculations, charts and graphs, and monitor work for compliance to applicable codes, accepted engineering practices and NFPA and IBC fire codes. Must be able to use leading industry fire protection software calculation programs. Must also have experience in planning, programming, estimating, scheduling and quality control. |
| 43 | Landscape Engineer              | B.Sc. in Landscape Engineering, OR Landscape Architecture; alternate qualification B.Sc. in Civil Engineering with a post-graduate certificate/diploma OR M.Sc. in Landscape Engineering, OR Landscape Architecture; from a fully accredited and reputed University.  | 8  | Must be experienced in landscape architecture site planning and design, to meet client specification in accordance ground topography and local area requirements. Must be able to develop useful and attractive outdoor environments using natural elements, such as land, trees, and shrubs, to create attractive settings for buildings, facilities, roadways, and parks, at commercial, light industrial and residential sites. Must be able to use leading industry CAD programs and landscape architecture design software. Must also have experience in planning, programming, estimating, scheduling and quality control.  |

|    |                               |  |    |  |
|----|-------------------------------|--|----|--|
| 44 | Senior Landscape Engineer     | B.Sc. in Landscape Engineering, OR Landscape Architecture; alternate qualification B.Sc. in Civil Engineering with a post-graduate certificate/diploma OR M.Sc. in Landscape Engineering, OR Landscape Architecture; from a fully accredited and reputed University. | 12 | Must be experienced in landscape architecture site planning and design, to meet client specification in accordance ground topography and local area requirements, and at least 40% must be in a supervisory position. Must be able to develop useful and attractive outdoor environments using natural elements, such as land, trees, and shrubs, to create attractive settings for buildings, facilities, roadways, and parks, at commercial, light industrial and residential sites. Must be able to use leading industry CAD programs and landscape architecture design software. Must also have experience in planning, programming, estimating, scheduling and quality control.                   |
| 45 | Architectural Engineer        | B.Sc. in Architectural Engineering, OR Architecture, from a fully accredited and reputed University.   | 8  | Must be experienced in the architectural design of new build, modification, and renovation of buildings in office, recreational, commercial, light industrial and multi-occupancy residential facilities, to meet client specification in accordance building codes and local area requirements. Must be able to develop useful and attractive indoor environments using traditional and contemporary materials to create attractive and functional settings. Must be able to use leading industry CAD programs and architectural design software. Must also have experience in planning, programming, estimating, scheduling and quality control.   |
| 46 | Senior Architectural Engineer | B.Sc. in Architectural Engineering, OR Architecture, from a fully accredited and reputed University, and with current PE (professional engineer) or CE (chartered engineer) status from an approved institution in the candidate's home country.                     | 12 | Must be experienced in the architectural design of new build, modification, and renovation of buildings in office, recreational, commercial, light industrial and multi-occupancy residential facilities, to meet client specification in accordance building codes and local area requirements, and at least 40% must be in a supervisory position. Must be able to develop useful and attractive indoor environments using traditional and contemporary materials to create attractive and functional settings. Must be able to use leading industry CAD programs and architectural design software. Must also have experience in planning, programming, estimating, scheduling and quality control. |

|    |                    |   |    |   |
|----|--------------------|---|----|---|
| 47 | QA Engineer        | B.Sc. in Quality Assurance Engineering from a fully accredited and reputed University; alternate qualification; B.Sc. in Chemical, Civil, Mechanical, or Electrical Engineering from a fully accredited and reputed University, with diploma from ASQ [American Society of Quality] or approved similar institution, for quality assurance.   | 8  | Must be experienced in developing and implementing quality assurance programs in the civil construction and/or building maintenance field. Must be conversant with all elements of ISO 9000, including quality systems, quality audits, quality records, and quality suppliers; as well as fit for purpose assessment of work procedures and conforming and non-conforming materials.   |
| 48 | Senior QA Engineer | B.Sc. in Quality Assurance Engineering from a fully accredited and reputed University; alternate qualification; B.Sc. in Chemical, Civil, Mechanical, or Electrical Engineering from a fully accredited and reputed University, with diploma from ASQ [American Society of Quality] or approved similar institution, for quality assurance; together with a lead assessor or quality auditor certificate or diploma from an approved institution or university. | 12 | Must be experienced in developing and implementing quality assurance programs in the civil construction and/or building maintenance field, and at least 40% must be in a supervisory position. Must be conversant with all elements of ISO 9000, including quality systems, quality audits, quality records, and quality suppliers; as well as fit for purpose assessment of work procedures and conforming and non-conforming materials. |
| 49 | Welder             | Secondary School Education and full apprenticeship training in welding technology and approved welder certification in pipe and structural welding, electric arc, gas welding and gas brazing.  | 4  | Must have experience in pipe and structural welding, flame cutting and metal fabrication, and shall be able to use electric arc, gas welding and gas brazing equipment. Must be able to read and understand technical drawings and complete work in accordance with specifications.   |
| 50 | Foreman Welder     | Secondary School Education and full apprenticeship training in welding technology and approved welder certification in pipe and structural welding, electric arc, gas welding and gas brazing.  | 8  | Must have experience in pipe and structural welding, flame cutting and metal fabrication, and shall be able to use electric arc, gas welding and gas brazing equipment, and at least 40% must be in a supervisory position. Must be able to read and understand technical drawings and complete work in accordance with specifications. Must also have experience in planning and scheduling.   |

|    |                                   |  |   |  |
|----|-----------------------------------|--|---|--|
| 51 | Food Hygiene Inspector/Specialist | B.Sc. or M.Sc. in Industrial Hygiene from a fully accredited and reputed University; OR alternate qualification, B.Sc. in Food Catering Management or Biology or Chemistry with post graduate diploma/certificate in Industrial Hygiene or Food Hygiene/Safety or Medical Hygiene, from a fully accredited and reputed University or approved institution. | 8 | Must have experience in food hygiene, 50% of which (minimum) must be in the food preparation or food processing industry and inspecting food processing facilities for compliance to food hygiene standards. Must have experience in hygiene procedures for food procurement, food preparation, and food display, as well as expert knowledge of commonly occurring food pathogens and the prevention of transmission to humans, including effective disinfection and cleaning methodologies. Must have experience in directing activities associated with Hazard Analysis and Critical Control Point (HACCP) systems, as adopted by the WHO Codex Alimentarius Commission and other leading international recognized food hygiene/safety organizations. Must also have good interpersonal skills with a proven track record in handling people, work and task planning, effective communications, cost effectiveness, developing initiatives and excellent job knowledge. |
|----|-----------------------------------|--|---|--|