

REPAIR ENGINEER – 2 people

1. Summary description of the work:

1.1. Organizes, manages, controls, coordinates and is responsible for the overall repair activity of the company.

1.2. Organizes, manages, controls and coordinates the activities in the company related to the maintenance, repair and reconstruction of the facilities and equipment.

2. Work tasks and duties:

1. Participates in the management of the company in accordance with the specific economic indicators and criteria related to its business program;

2. Meets and controls the compliance and quality of the materials used and the compliance with the requirements of the documentation for repair, maintenance and reconstruction of the facilities in the company;

3. Organizes, manages and controls the planned and emergency repairs in the company and participates in negotiating the volume of repair works with external contractors and the control over their implementation;

4. Determines and distributes the tasks among the heads of the individual directions and organizes the effective cooperation between them;

5. Organizes, coordinates and is responsible for the operational provision of repair and restoration works with the necessary material resources and tools;

6. Participates in the commissioning of the facilities after repair and controls the observance of the instructions and regulations for safe operation and technical supervision of the facilities with increased danger;

7. Participates in the development of the repair plan of the company.

REQUIREMENTS FOR THE POSITION:

1. Educational and qualification requirements:

1.1. Type and level of education:

– Master's degree (Mechanical Engineering, Thermal Power Engineering, etc.)

1.2. Work experience:

- To have more than 2 years of work experience in a production unit of a power plant;

1.3. Special skills:

- To have in-depth knowledge of mechanics, thermal power engineering and basic technical disciplines;

- To have knowledge of the main production and specific machines in the company;

- to know the technical characteristics, design features, purpose, territorial location and operating modes of the equipment entrusted to him;

- planning, organization and technology of repair works on the serviced facilities.

OPERATIONS ENGINEER – 2 people

1. Summary description of the work:

1.1. Organizes, manages, controls, coordinates and is responsible for the overall operational activity of the company.

1.2. Carries out the coordination and methodological guidance of the heads of departments, workshops and units in order to lawfully exercise their delegated powers, as well as compliance with all normative documents concerning the activities carried out by them.

2. Work tasks and duties:

1. Participates in the management of the company in accordance with the specific economic indicators and criteria related to its business program, developing and proposing for approval a strategy and tactics for profitable activity of the company;

2. Determines and distributes the tasks among the heads of the individual directions, departments, units, services and workshops and organizes the effective cooperation between them;

3. Organizes, coordinates and is responsible for the operational provision of production with the necessary material resources and tools, devices, tooling.

REQUIREMENTS FOR THE POSITION:

1.1. Type and level of education:

– Master's degree in Thermal Power Engineering and the like.

1.2. Work experience:

- To have more than 2 years of work experience in a production unit of a power plant;

1.3. Special skills:

- To have in-depth knowledge of thermal power engineering, heat engineering and hydraulics;

- To have knowledge of the main production and specific machines in the company;

- to know the technical characteristics, design features, purpose, territorial location and operating modes of the equipment entrusted to him;

CHIEF DESIGNER – 1 person

1. Job description

1.1. Develops and adapts projects and kinematic schemes.

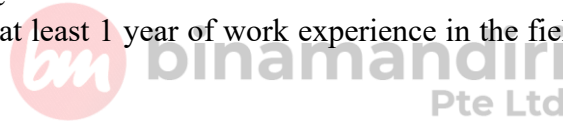
1.2. Main job duties and responsibilities:

- Responsible for the correct construction of individual units and details, their correct dimensions and consistency of dimensions in them;
- Makes complete calculations of the parts and assemblies and submits the design documentation in a finished form;
- Brings the documentation in line with technical and production changes;
- Determines the material from which the details and assemblies developed by him will be made;
- Participates in the collection of the necessary documents for the legalization of the project at the different stages of its development;
- The Chief Designer in the performance of his labor duties must know: methods for design and performance of technical and economic calculations; principles of operation, technology of production and installation of equipment and structures, types and properties of materials; methodological and normative materials for the design, construction and operation of facilities; standards, specifications and other guidelines for the development and implementation of design and estimate documentation; technical means for design and construction; advanced internal and foreign experience in design and construction; technical, economic, environmental and social requirements for the designed facilities.

Education: BD – engineering or economics.

Professional experience

To occupy the position, at least 1 year of work experience in the field of project development is required.



ELECTRICAL ENGINEER in Electrical Department – 10 people

1. Job Description, Functions and Duties:

1.1. General characteristics of the work:

The electrical engineer in the "Electro" workshop manages, organizes, controls and coordinates the entire operation and repair activities of the workshop, through the shifts and the heads of units/teams in the workshop, as well as the interaction with the other units and workshops in "TPP - Bobov dol" AD.

1.2. Functions and duties

- Ensures reliable and trouble-free operation of generators, electric motors, block transformers and CH transformers, relay protections and interlocks;
- Maintains high technological readiness of generators and transformers;
- Reliable operation of motors and relay protections for the performance of dispatching duties;
- monitors the implementation of the standards for electricity. CH energy and identifies measures;
- familiarize himself with the modes of equipment and make corrections;
- participates in the creation of repair schedules and prepares requests for shutdown of units and facilities for ongoing emergency repairs;
- prepares and coordinates schedules for periodic inspections and tests of vessels with RO in the workshop structure;
- *participates* in test commissions and in the investigation of accidents in the workshop;
- Performs inspections and inspections of the equipment;
- control the implementation of operational orders by his subordinate personnel;
- in case of accidents and accidents, take the necessary measures to eliminate them;
- provides the subordinate personnel with the necessary materials, means and work clothes;
- Selects the workers in the workshop, their placement and qualification;
- makes proposals for penalties and stimulation of subordinate personnel;
- in certain situations, he takes on the functions of a shift in the workshop;
- Recruiting shift staff and developing rest schedules.
- instructs the staff.

2. Requirements for the position:

2.1. Education – BD in Electrical Engineering, Electric Power Engineering or similar;

2.2. Professional experience:

To occupy the position, at least 2 years of work in a thermal power plant are required.

2.3. Must know:

2.3.1. General knowledge of the main technical disciplines;

2.3.2. In-depth knowledge of:

- Basics of Heat Engineering;
- Electrical machines and apparatus;
- Electrical Engineering;

ELECTRICAL ENGINEER in the LABORATORY

1. Job Description, Functions and Duties:

1.1. General characteristics of the work:

Plans, organizes, controls and coordinates the operation and repair activities of the facilities serviced by the MVC laboratory, as well as the interaction with the other units and workshops in TPP - Bobov Dol AD.

1.2. Functions and duties:

- Checking the relay protections, automation, signaling and interlocks according to an approved schedule;
- Drawing up schemes, regime maps, diagrams and settings of the RZ, related to the normal operation of the facilities;
- Express assessment of the impact of deviations of some characteristic parameters and indicators on the economical and safe operation of the facilities;
- competent intervention in emergency situations;
- Assessment of the quality of the repairs performed;
- monitors the correct introduction of all relay protections, emergency and warning signals and in case of noticed defects, takes measures for their timely elimination;
- accepts from the specialized start-up laboratories the work done under the IEC;
- monitors the sealing of relay protections and notifies of detected violations;
- periodically inspect the boards of the MVC and control panels;
- Provides principle and installation diagrams of all relay protection devices and automation;
- monitors the correct operation of the recording devices;
- Provides all switchboards of the MVC, on which the personnel on duty will make switches, with switches, tables, etc. with all used modes;
- organizes and controls the maintenance of technical documentation for the performed prophylaxis, tests and adjustments;
- organizes and is responsible for the inspection of the control and measuring instruments at the sites of the MVC laboratory;

2. Requirements for the position:

2.1. Education;

2.1.1. Degree – BD or secondary technical;

2.1.2. Specialty – Electrical Engineering, Power Plants and Networks, Relay Protection and Automation of Energy Systems;

2.2. Professional experience:

To occupy the position, at least 2 years of work experience in the specialty is required.

2.3. Must know:

2.3.1. General knowledge of the main technical disciplines.

Shift supervisor in the Electrical Department – 2 people

1. Job Description, Functions and Duties.

1.1. General characteristics of the work

A shift supervisor manages the operational personnel on duty from the EC during the shift; is responsible for compliance with the requirements for occupational safety and proper operation and for conducting the rounds during the shift.

1.2. Functions and duties

- strict adherence to the instructions for reliable and safe operation;
- ensures the mode of operation of the equipment, machines and facilities in the workshop depending on the operation of the plant;
- control over the execution of orders by his subordinate personnel;
- in case of accidents and emergency conditions, organizes their immediate removal;
- carries out continuous control over the serviceability and condition of the equipment;
- ensures the implementation of operations for switching, removal and introduction from and into operation of the equipment serviced in the workshop;
- Controls the implementation of testing programs;
- manages the elimination of equipment defects with the help of shift personnel or together with repair personnel;
- accepts the equipment after the repair on it;
- executes orders of the senior operational staff and other managers, received in accordance with the procedure specified in their job description
- in case of accidents and emergency conditions, acts in accordance with the instructions for liquidation of accidents
 - accepts and submits the shift according to procedures;
 - Maintains operational and technological documentation;
 - Participates in the conduct of emergency and fire drills;
 - Responsible for the qualification and instruction of the staff in the workshop;
 - monitors the observance of technological, labor and production discipline;

2.. Must know:

2.1. Secondary special education or higher education.

2.1 In-depth knowledge of:

- fundamentals of electrical engineering;
- Electrical machines and apparatus;
- Automation and telemechanics;

2.2. Detailed knowledge of:

- the design, principle of operation, features, operational characteristics and mode of operation of generators, transformers, electric motors, switchgear and their territorial location;
 - Operating instructions and diagrams;
- the principle of operation of the security devices, automation, interlocks, signaling and their territorial location;
- the structure and characteristics of electrical equipment in other workshops;
 - the order of commissioning and decommissioning, normal operation and elimination of breakdowns of the equipment for which he is responsible.

Operator of the main electrical panel in the Electrical Department – 5 people

1. Job Description, Functions and Duties.

1.1. General characteristics of the work:

Servicing the main electrical panel and ensuring the safe, reliable and economical operation of the serviced equipment.

4.2. Functions and duties.

Monitoring of the devices for the operation mode of electrical machines and ensuring their trouble-free operation; Control of the operation of relay protections, systems for technical measurements and automation; Regulation of the operating mode of the main generators for own needs according to the set dispatch schedule; Execution of operations for switching on and off generators, transformers for own needs and switching in the electrical networks /circuits/ of the power plant; The works require very high accuracy and precision of the operations performed; Liquidation of emergency situations; Execution of fitting emergency restoration works; Keeping operational documentation; Performing rounds according to route maps.

2. Requirements for the position:

2.1. Education;

2.1.1. Degree - secondary technical;

2.1.2. Specialty - Electrical Engineering, Automation and Telemechanics;

2.2. Professional experience.

To occupy the position, at least 1 year of professional practice in the TPP is required.

2.3. Must know:

2.3.1. General knowledge - in the main technical disciplines.

2.3.2. Detailed knowledge of:

The structure and principle of operation of electrical machines, signaling, relay protections, equipment for technological measurements and automation, the wiring diagram of the plant, the technical characteristics of the main electrical and thermomechanical equipment; the technological process for the production of thermal energy; the permissible deviations of the parameters.

ENGINEER, THERMAL POWER ENGINEER (POWER ENGINEER) IN Turbines

Department– 1 person

1.1.General characteristics of the work.

The engineer, thermal power engineer organizes, manages and controls the overall operational activity in the Turbines workshop;

2. Work tasks and duties:

- Ensures reliable and trouble-free operation of steam turbines, jet heaters and feeding equipment, providing sufficient maneuverability of the turbine generators within the specified range with optimal technical and economic indicators;

- ensures the readiness of the auxiliary facilities for the performance of dispatch tasks;

- monitors the implementation of the standards for heat consumption for own needs;

- participates in test commissions and in the investigation of accidents in the workshop;

- Performs inspections and inspections of the equipment;

- control the implementation of operational orders by his subordinate personnel;

- in certain situations, performs the labor duties of the Shift Supervisor in the workshop;

- recruits shift personnel and develops work and rest schedules;

- instructs the operational staff;

- observes and controls the observance of the current rules, norms and instructions on safety and labor protection during the operation of the equipment;

- Participates in the liquidation of the accidents that have occurred;

- in case of accidents, acts in accordance with the emergency plan of the company;

- makes proposals to the head of the workshop for material stimulation or sanctioning of workers from the workshop;

- during vacations and absences from his/her workplace, he/she may be replaced by a shift supervisor in the workshop, and he/she may replace a workshop supervisor and a shift supervisor;

- performs other functions assigned to him by the Head of Turbines Workshop

2. Requirements for the position.

2.1. Education.

2.1.1.BD

2.1.2. Specialty - Thermal Power Engineering, Electrical Networks and Power Plants, Electrical Engineering.

2.2. Professional experience.

To occupy the position, at least 2 years of work in the TPP are required.

2.3.Must possess:

2.3.1. General knowledge - in the main technical disciplines.

2.3.2. In-depth knowledge of: basics of heat engineering, electrical machinery and apparatus, electrical engineering, instrumentation and automation, technological scheme of thermal power plants.

2.3.3. Detailed knowledge of: the structure, principle of operation and technical characteristics of steam turbines and TPP to them; basic technological parameters characterizing the course of the production process; technological and operating instructions; principal operation of instrumentation and control and automation schemes.

Shift supervisor in the Turbines Department – 2 people

1.1.General characteristics of the work.

Manages the overall work of the workshop during the shift and is responsible for the proper maintenance of the units and equipment in the workshop. Directs the shift personnel directly and is fully responsible for the continuous and economical operation of all facilities in the workshop.

1.2. Functions and duties.

The main functions and duties of a shift technician in the Turbinen workshop are:

- Accurately fulfill the load schedule specified by the engineer on duty and maintain a reliable and economical mode of the units based on their performance;
- Periodically during his duty to check the condition of all machines and equipment and to control the attendants at the workplaces;
- To exercise direct control over the various manipulations performed by a relevant duty officer;
- To perform the manipulation of turning the turbine at start-up

2. Requirements for the position:

2.1. Education;

2.1.1.BD

2.1.2. Specialty – Heat Engineering, Heat and Nuclear Energy, Electrical Machines and Apparatus;

2.2. Professional experience.

To occupy the position, at least 2 years of work in a thermal power plant are required.

2.3. General knowledge of the main technical disciplines;

2.4. In-depth knowledge of:

- power grids and power plants;
- Basics of Heat Engineering;
- Electrical machines and apparatus;
- electrical engineering;
- Mechanical Science;

HEAD OF Turbines Department – 1 person

1. Summary description of the work:

- performs managerial functions in the organization of the production activity of the workshop;

2. Work tasks and obligations:

- Manages the organization of labor and production in the workshop;
- Organizes the development of assignments, schedules and all necessary calculation justifications for the production activity of the workshop;
- manages the course of production processes, in accordance with the technical documentation;
- organizes, distributes, monitors and controls the production of the relevant orders and the performance of mechanical repairs of the main equipment;
- controls compliance with technological processes and production quality;
- exercises control over the use and maintenance of machinery and equipment and controls compliance with their passport, technical and operational requirements;
- participates in the acceptance, checks the correctness of installation, adjustment and commissioning of new and repaired equipment;

REQUIREMENTS FOR THE POSITION:

1. Performer's achievements:

1.1. Type and level of education:

- Education - Master's degree. Thermal Power Engineering

1.2. Work experience:

- To have more than 3 years of work experience in a production unit of a power plant;

1.3. Special skills:

- To know the main machines and equipment in the workshop;
- to know the organization of labor and the main production capacities;
- To know the technology of production in the workshop;
- to know the raw materials, materials, tools, spare parts and others necessary for the production activity;
- to know the order and manner of keeping the reporting documentation for the produced production;
- to know the production cycle and equipment of the company;
- Be able to read complex assembly drawings, diagrams and specifications.

STEAM TURBINE OPERATOR – 5 people

1. Job characteristics, functions and duties.

1.1. General characteristics of the work.

Manages, organizes and controls the overall operation of the turbine, ensuring trouble-free and economical operation of the main and auxiliary equipment of the turbine.

2.2. Functions and duties.

- To carry out the orders received by the shift manager after he has understood them well through his subordinate personnel;
- To rotate the turbine at 3000 rpm. when it is put into operation;
- Timely replacement of operating equipment, scrolling according to the work schedule, switching and maintenance of the equipment;
- To take out equipment for repair in a timely manner and to monitor the proper removal of the equipment.

2. Requirements for the position:

2.1. Education;

2.1.1. Degree – secondary technical;

2.1.2. Specialty – thermal power engineering, heat engineering, electrical machines and apparatus, electrical networks and power plants, mechanical engineering;

2.2.2. Professional experience.

To occupy the position, at least 1 year of work experience as a steam turbine operator is required.

2.2.3. Must know:

a) General knowledge of the main technical disciplines;

b) In-depth knowledge of: electrical networks and power plants, basics of heat engineering, electrical machines and apparatus, electrical engineering, mechanical engineering, automation and telemechanics, heat transfer.

c) Detailed knowledge of:

- The principle of operation of the K-210-130 turbine and all auxiliary equipment;
- Diagram of all pipelines within the turbine equipment, as well as the purpose of all steam, water, oil and drainage valves and actuators;
- Place of installation and assignment of all instrumentation of the turbine, the operation of the automatic regulators, protections and signals of the unit;
- Main characteristics of the turbine unit and its auxiliary equipment and principle operation.

HEAD OF Boiler Department – 1 person

1. Summary description of the work:

- Manages the entire activity of the workshop in accordance with the approved production plan;

2. Work tasks and obligations:

- Organizes the development of assignments, schedules and all necessary calculation justifications for the production activity of the workshop;

- manages the course of production processes, in accordance with the technical documentation;

- issues instructions in the field of production activity and controls their implementation;

- Exercises control over the provision of materials and energy and is responsible for the storage of materials, products, structures and facilities necessary for the operation of the facilities. Takes care of their most economical use, without compromising the quality of repair and operation works in the workshop;

- organizes, distributes, monitors and controls the production of the relevant orders and the performance of mechanical repairs of the main equipment;

- controls compliance with technological processes and production quality;

- exercises control over the use and maintenance of the machinery and equipment and controls the observance of their passport, technical and operational requirements;

- organizes the activities in the workshop and monitors their safe implementation in the

- prepares and, if necessary, updates instructions for operation, maintenance and repair of the facilities in the workshop related to the use of natural gas;

- participates in the acceptance, checks the correctness of installation, adjustment and commissioning of new and repaired equipment;

- monitors the movement of equipment and participates in an inventory of the same;

2. Requirements for the position:

2.1. Type and level of education:

- Education - qualification degree "Master".

2.2. Work experience:

- to have more than 3 years of work experience in a responsible technical position;

2.3. Special skills:

- To know the main machines and equipment in the workshop;

- to know the organization of labor and the main production capacities;

- To know the technology of production in the workshop;

- to know the raw materials, materials, tools, spare parts and others necessary for the production activity;

- to know the production cycle and equipment of the company;

- be able to read complex installation drawings, diagrams and specifications and prepare sketches of details, assemblies, mechanisms and mounting devices for application and production;

- To know the modern achievements in the development and organizational support of the technological process.

ENGINEER, STEAM AND HOT WATER BOILERS (POWER ENGINEER) IN "BOILER" Department – 1 person

1. General characteristics of the work

1.1 Organizes, manages and controls the operational activity in the "Boiler" workshop through the Shift Supervisors and the heads of units/brigades in the workshop.

1.2. Functions and duties

- Ensures safe operation of steam generators within the set range with optimal technical and economic indicators
- Maintains the technical readiness of the auxiliary facilities and their best combination for the performance of dispatch tasks and environmental protection;
- Monitors the implementation of the standards for consumption of fuels and electricity. energy CH and identifies measures;
- Daily familiarization with the modes of equipment in the workshop and, if necessary, make corrections;
- Prepares requests for shutdown of units and equipment for current and emergency repairs; participates in the preparation of repair schedules; draws up defective lists;
- Performs inspections and inspections of the equipment;

2. Requirements for the position:

2.1 Education;

2.1.1. Bachelor's Degree (BD)

2.1.2. Specialty – Thermal Power Engineering, Electrical Networks and Power Plants;

2.2 Professional experience.

To occupy the position, at least 2 years of work in the TPP are required.

3.1. Must know:

(a) general knowledge of the main technical disciplines;

b) in-depth knowledge of:

Fundamentals of Heat Engineering;

c) Detailed knowledge of:

The structure, principle of operation and technical characteristics of the equipment in the workshop; boiler units and auxiliary equipment; technologies for repair of equipment and rules for operational operation, rules for bringing them into repair and accepting them from repair; regulations for technical supervision; principle operation of instrumentation and control and automation schemes; methods and means for environmental protection; characteristics of the materials and means used in repairs for mechanization; norms and methods for technical control of the repair activity.

SHIFT SUPERVISOR IN THE "BOILER" Department – 2 people

1. Summary Job Description:

- Manages the overall maintenance of the steam generator - starting, stopping and adjusting the fuel regime according to the technological regime.

2. Work tasks and obligations:

- read diagrams, graphs and readings of meters at certain intervals, control trouble-free operation and, if necessary, perform appropriate actions;
- to ensure continuous and trouble-free operation of the steam generator and auxiliary equipment, powder preparation systems, gas-air and fuel oil systems, drainage systems, combustion devices, a system for supplying chemical reagents to the steam pipeline, systems for technical and flushing water, the compressed air system;
- maintains production logs - log for operational switches, log for open and closed work orders for repair activities, data and reports;
- performs responsible operations for stopping, starting and eliminating accidents on steam generators;
- Participation in starting, stopping and switching the equipment;
- Periodic rounds and observations of the operation of the facilities;
- carries out works that are related to liability for actions affecting safety
- to detect and troubleshoot the operation of the steam generator;

2. Requirements for the position:

2.1. Type and level of education:

- Degree – secondary special or higher

2.2. Work experience:

- To occupy the position, 2 years of work experience in the same or similar position are required;

2.3. Special skills:

- Have a basic knowledge of the company's specific production;
- to know the types of tools, machines, equipment and devices that are used in repair and installation operations and the rules for working with them;
- to know the purpose, construction and method of installation of parts, assemblies, assemblies;
- To know the basics of assembly technology, rational technological methods of assembly and methods for achieving accuracy;
- to know the device, principle of operation and how to work with measuring instruments;
- to know the cases of application of complex mounting devices and the rules for working with them.

OPERATOR, STEAM GENERATOR IN THE "BOILER" Department – 5 people

1. Summary Job Description:

- Fully manages the operation of the steam generator - starting, stopping and adjusting the combustion mode according to the technological regime

2. Work tasks and obligations:

- read diagrams, graphs and readings of meters at certain intervals, control trouble-free operation and, if necessary, perform appropriate actions;
- to ensure continuous and trouble-free operation of the steam generator and auxiliary equipment, powder preparation systems, gas-air and fuel oil systems, drainage systems, combustion devices, system for supplying chemical reagents to the steam pipeline, technical and flushing water systems, compressed air system;
- maintain production logs - log for operational switching, log for open and closed repair work orders, data and reports, communicate with other personnel to determine the serviceability of the equipment;
- performs responsible operations for stopping, starting and eliminating accidents on steam generators;
- Participation in starting, stopping and switching the equipment;
- Periodic rounds and observations of the operation of the facilities;
- performs work that is related to liability for actions affecting the safety of other persons with a low probability of injury;
- Keeps operational documentation;
- to detect and troubleshoot the operation of the steam generator.

2. Requirements for the position:

2.1. Type and level of education:

- Degree - intermediate

2.2. Work experience:

- To occupy the position, 1 year of work experience in the same or similar position is required.

2.3. Special skills:

- Have a basic knowledge of the company's specific production;
 - to know the types of tools, machines, equipment and devices that are used in repair and installation operations and the rules for working with them;
 - to know the purpose, construction and method of installation of parts, assemblies, assemblies;
 - To know the basics of assembly technology, rational technological methods of assembly and methods for achieving accuracy;
 - to know the device, principle of operation and how to work with measuring instruments;

OPERATOR, UNIT IN POWER PLANT – 5 people

1. Characteristics of the work.

1.1. General characteristics of the work

During duty, it serves and ensures reliable and trouble-free operation of the technological control and automation systems.

1.2. Functions and duties

Ensuring reliable and trouble-free operation of the systems for technological measurements, control and control, automatic devices and regulators, technological protections, interlocking signals and remote control devices; performing operations for switching on and off the control and control systems with all elements related to them; setting of limit switches of actuators and regulators; testing of technological protections, interlocks and signals, ensuring the safety of personnel performing repair and adjustment works; keeping technological documentation; performing rounds according to route maps.

2. Requirements for the position:

2.1. Education;

2.1.1. Degree - secondary specialized;

2.1.2. Specialty - in the field of electric power

2.2. Professional experience.

To occupy the position, 1 year of professional experience in the same or similar position is required

2.3. Must know:

2.3.1. General knowledge of the main technical disciplines, the process of electricity and heat production.

2.3.2. Detailed knowledge of:

The structure and principle of operation of the instruments for technological measurements, automatic devices and regulators; the principles, structural and installation and communication schemes of the regulators, protections, remote control systems, signals, schemes for selective control of power lines and their location; the purpose and conditions for the use of portable control devices and installations for adjustment and testing of devices and regulators on the panels; the technological process for the production of heat and electricity.

Engineer, Instrumentation and Automation Department– 10 people

1. General characteristics of the work

Instrumentation and Instrumentation Engineer in the Instrumentation & A workshop manages, organizes and controls the entire operational activity of the workshop, through the heads of shifts and the heads of units/teams in the workshop.

2. Functions and duties

- ensures reliable and trouble-free operation of the means for technological control and automation, protections and interlocks;
- technological protections for implementation;
- monitors the operation of automated systems;
- to monitor the means for measuring the equipment with increased danger to be metrologically checked;
- performs inspections and inspections of equipment.

3. Requirements for the position:

3.1. Education;

3.1.1. Degree - BD or secondary technical;

3.1.2. Specialty – electrical engineering, automation;

3.2. Professional experience:

To occupy the position, at least 2 years of work in a thermal power plant are required.

3.3. Must know:

(a) general knowledge of the main technical disciplines;

b) in-depth knowledge of:

- Basics of Heat Engineering;
- Electrical machines and apparatus;
- Electrical Engineering;
- Automation and telemechanics,
- Microprocessor control systems.

c) Detailed knowledge of: The structure, principle of operation and technical characteristics of the equipment in the workshop and the plant: generators, electric motors, switchgear 110 and 220 kV, block transformers, technological scheme of production in the thermal power plant; technologies for equipment repair and proper operation; rules for introduction and removal of the equipment in and out of repair; basic parameters and processes of generation, transformation and transmission of electrical energy; laws and regulations for regulation of electrical quantities; requirements and equipment of relay protection; principle operation and efficiency of thermal control and automation schemes; technology and organization of operation and repair activities.