

**State of Michigan
Civil Service Commission**
Capitol Commons Center, P.O. Box
30002
Lansing, MI 48909

Federal privacy laws
and/or state confidentiality
requirements protect a
portion of this information.

POSITION DESCRIPTION

This form is to be completed by the person that occupies the position being described and reviewed by the supervisor and appointing authority to ensure its accuracy. It is important that each of the parties sign and date the form. If the position is vacant, the supervisor and appointing authority should complete the form.

This form will serve as the official classification document of record for this position. Please take the time to complete this form as accurately as you can since the information in this form is used to determine the proper classification of the position. **THE SUPERVISOR AND/OR APPOINTING AUTHORITY SHOULD COMPLETE THIS PAGE.**

2. Employee's Name (Last, First, M.I.)	8. Department/Agency Technology, Management & Budget
3. Employee Identification Number	9. Bureau (Institution, Board, or Commission) State Facilities Administration
4. Civil Service Classification of Position Equipment Technician 8-E10	10. Division Building Operations
5. Working Title of Position (What the agency titles the position) Building Automation Systems Technician	11. Section East Region
6. Name and Classification of Direct Supervisor Derek Leppek, Facilities Supervisor - 14	12. Unit Southeast Michigan Psychiatric Hospital
7. Name and Classification of Next Higher-Level Supervisor Gerald Keeder, State Administrative Manager 15	13. Work Location (City and Address)/Hours of Work Southeast Michigan Psychiatric Hospital 18471 Haggerty Rd. Northville, MI 48168 7:00 – 5:00 or some variation
14. General Summary of Function/Purpose of Position To install, maintain, troubleshoot, repair, and replace building automation systems (BAS) and utility metering systems within state-owned and/or operated buildings throughout the East Region of the Building Operations Division. Includes system components such as thermostats, valves, pneumatic controls, direct digital controls, variable air volume controls, and hydronic and steam systems associated with heating, cooling, and ventilation. Creates and maintains partnerships with Facilities Supervisors and labor/trades staff for optimal customer service and efficiency while performing the above-mentioned duties within Southeast Michigan Psychiatric Hospital, Center for Forensic Psychiatry, and other East Region facilities as needed. Southeast Michigan Psychiatric Hospital and Center for Forensic Psychiatry encompass over 750,000 square feet of space.	
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15. Please describe your assigned duties, percent of time spent performing each duty, and explain what is done to complete each duty.

List your duties in the order of importance, from most important to least important. The total percentage of all duties performed must equal 100 percent.

Duty 1

General Summary of Duty 1

% of Time 30

Provide response to tenant service requests (i.e. hot/cold calls) and BAS malfunctions

Individual tasks related to the duty.

- Make on-site inspections when problems arise
- Identify, recommend, and implement solutions
- Work in partnership with zone management and maintenance staff to deliver resolution
- Test and check/verify proper system device responses
- Use meters and test equipment to assess electric, electronic, and pneumatic controls and circuitry
- Use various BAS service software to identify equipment malfunctions and failures, as well as operating deficiencies
- Modify program variables and data to produce desired, proper, and repeatable results in a space or building
- Work with others in the operation, installation, and inspection of equipment according to industry best practices

Duty 2

General Summary of Duty 2

% of Time 30

Perform preventive maintenance and commissioning inspections to proactively reduce service calls by ensuring proper systems operation

Individual tasks related to the duty.

- Test and check device-level functionality for all BAS components within a facility
- Test and calibrate thermostats and other sensors
- Measure and adjust air balance according to commissioning standards
- Test all electric, electronic, and pneumatic actuators
- Test and calibrate safety devices such as freeze stats, high- and low-pressure cut-out switches, fire alarm interlocks, etc.

Duty 3

General Summary of Duty 3

% of Time 25

Install, replace, or upgrade systems/components to establish, maintain, restore, or improve automated control and metering of building systems

Individual tasks related to the duty.

- Install controls, sensors, transmitters, and actuators
- Replace non-functioning controls, sensors, transmitters, and actuators
- Upgrade controls, sensors, transmitters, and actuators with similar or improved components
- Assist with specifications, upgrade and improvement details and projects
- Identify materials needed to complete a project

Duty 4

General Summary of Duty 4

% of Time 10

Maintain consistent, standardized documentation related to programs, data, settings, and values

Individual tasks related to the duty.

- Record maintenance activities and enter/route work orders in the Computerized Maintenance Management System (CMMS)
- Submit commissioning reports to document ongoing system status
- Complete CMMS equipment change forms
- File all manufacturer information, shop drawings and as-builts associated with component replacement or new system installation
- Provide all other information and reports as requested by supervisor
- Other duties as assigned by supervision

16. Describe the types of decisions you make independently in your position and tell who and/or what is affected by those decisions.

If and when, equipment can be shut down and the consequences of such action. Building or space occupant comfort as affected by maintenance activity. Communicating changes to other trades, including supervisors, and building managers. Multiple energy source lockout and communication.

17. Describe the types of decisions that require your supervisor's review.

- Leaving equipment offline.
- Significant program or software changes.
- Decisions requiring the use of un-allocated time or resources.
- Changes in policy or procedure.

18. What kind of physical effort do you use in your position?

May need to stand, climb, stoop, kneel, crawl, lift, bend, or operate power tools for extended periods daily. Outside work, may occasionally be exposed to cold, wet, windy, and dark conditions. Penthouses, tunnels, scaffolding and ladders, power hoists, noise, dust, and smoke could be frequent conditions and work areas depending on the project.

19. List the names and classification titles of classified employees whom you immediately supervise or oversee on a full-time, on-going basis. (If more than 10, list only classification titles and the number of

<u>NAME</u>	<u>CLASS TITLE</u>	<u>NAME</u>	<u>CLASS TITLE</u>
	N/A		

20. My responsibility for the above-listed employees includes the following (check as many as apply):

- | | |
|---|--|
| ☐ Complete and sign service ratings. | ☐ Assign work. |
| ☐ Provide formal written counseling. | ☐ Approve work. |
| ☐ Approve leave requests. | ☐ Review work. |
| ☐ Approve time and attendance. | ☐ Provide guidance on work methods. |
| ☐ Orally reprimand. | ☐ Train employees in the work. |

21. I certify that the above answers are my own and are accurate and complete.

Signature

Date

NOTE: Make a copy of this form for your records.

TO BE COMPLETED BY DIRECT SUPERVISOR

22. Do you agree with the responses from the employee for Items 1 through 20? If not, which items do you disagree with and why?

Yes

23. What are the essential duties of this position?

To ensure all HVAC controls and BAS in the physical plant are serviced and maintained in good operating condition for all facilities managed by the DTMB.

24. Indicate specifically how the position's duties and responsibilities have changed since the position was last reviewed.

N/A

25. What is the function of the work area and how does this position fit into that function?

The function of the work unit is to provide safe, comfortable, and cost-effective facilities that allow our customers to provide their designated services to the people of the State of Michigan, and to provide maintenance and construction services on buildings to preserve the investment of the State of Michigan, DTMB. This position is a vital technician function providing hands-on, in the field maintenance.

26. In your opinion, what are the minimum education and experience qualifications needed to perform the essential functions of this position.

EDUCATION:

Possession of an associate degree in electrical, electromechanical or electronics engineering or technology.

Alternative Education & Experience:

Completion of 60 semester (90 term) credits including 24 semester (36 term) credits in any combination of course work in the following areas: electrical, electromechanical, or electronics engineering, electronics technology, computer science, highway or traffic technology, engineering, or mathematics may be substituted for the education requirement.

A certificate from a two year, post-secondary, technical program in electrical, electromechanical, or electronics technology may be substituted for the education requirement.

Four years of experience in the installation, maintenance, troubleshooting, and repair of electrical and electronic equipment may be substituted for the education requirement.

Equipment Technician E10

Possession of a bachelor's degree or higher with 16 semester (24 term) credits in job specific or related course work may be substituted for the education and experience requirements

EXPERIENCE:

Equipment Technician 8: No specific type or amount is required.

Equipment Technician 9: One year of experience in the installation, maintenance, troubleshooting, and repair of electrical and electronic equipment equivalent to an Equipment Technician 8.

Equipment Technician E10: Two years of experience in the installation, maintenance, troubleshooting and repair of electrical and electronic equipment equivalent to an Equipment Technician, including one year equivalent to an Equipment Technician 9.

Previous general experience in the HVAC, electrical trade or electronic controls fields desired.

KNOWLEDGE, SKILLS, AND ABILITIES:

Knowledge of:

- electrical and electro-mechanical principles
- analog and digital electronics. Knowledge of electrical wiring
- electrical control and relay systems
- theory and characteristics of solid state devices
- current developments in electronic equipment
- fire alarm systems.
- basic mathematics
- occupational hazards and safety precautions applicable to the work.

Skill in:

- the use of electrical and electronic testing equipment such as volt-ohmmeter, oscilloscope, integrated circuit tester, signal tracing equipment, logic probe, and soldering equipment
- electronic and electro-mechanical equipment repair and maintenance

Ability to:

- inspect and evaluate electrical and electronic equipment for proper operation and perform routine maintenance, cleaning, and adjustment
- conduct electronic tests on equipment and to analyze and troubleshoot problems in equipment operation
- disassemble and repair electrical and electronic equipment
- calibrate electronic measuring instruments
- interpret and follow plans, specifications, and instructions
- prepare and maintain records related to the work
- install and modify equipment
- construct equipment designed by engineers
- assist engineers in designing equipment
- prepare specifications for equipment
- communicate effectively

Additional Knowledge, Skills, and Abilities related to HVAC, electrical or electronic controls.

- Ability to use computerized systems and software.
- Ability to learn various industry specific building automation computer applications from manufacturers such as Tridium, Honeywell, TRANE, Siemens, and Johnson Controls.

CERTIFICATES, LICENSES, REGISTRATIONS:

None

NOTE: *Civil Service approval of this position does not constitute agreement with or acceptance of the desirable qualifications for this position.*

27. I certify that the information presented in this position description provides a complete and accurate depiction of the duties and responsibilities assigned to this position.

Supervisor's Signature

Date

TO BE FILLED OUT BY APPOINTING AUTHORITY

28. Indicate any exceptions or additions to the statements of the employee(s) or supervisor.

N/A

29. I certify that the entries on these pages are accurate and complete.

Appointing Authority's Signature

Date