

**Attachment #3 - New Jersey Examination Content Outline for Fire Alarm, Burglar Alarm, and Locksmith  
T2805 - Examinations Services for State Boards (Trades)  
Bid Solicitation # 21DPP00597**

**NEW JERSEY FIRE ALARM, BURGLAR ALARM AND LOCKSMITH LICENSURE EXAMINATIONS**

|                                   |                            |
|-----------------------------------|----------------------------|
| <b>Fire Alarm Examinations</b>    |                            |
| <input type="checkbox"/>          | Business and Law           |
| <input type="checkbox"/>          | Fire Alarm                 |
| <input type="checkbox"/>          | Electronic Security System |
| <b>Burglar Alarm Examinations</b> |                            |
| <input type="checkbox"/>          | Business and Law           |
| <input type="checkbox"/>          | Burglar Alarm              |
| <input type="checkbox"/>          | Electronic Security System |
| <b>Locksmith Examinations</b>     |                            |
| <input type="checkbox"/>          | Business and Law           |
| <input type="checkbox"/>          | Locksmith                  |
| <input type="checkbox"/>          | Electronic Security System |

**FIRE ALARM EXAMINATION**

Scope – "Licensee" means a person licensed to engage in the burglar alarm business, the fire alarm business, or the provision of locksmithing services pursuant to N.J.S.A. 45:5A-27 and the provisions of this chapter.

"Fire alarm" means a security system comprised of an interconnected series of alarm devices or components, including systems interconnected with radio frequency signals, which emits an audible, visual or electronic signal indicating an alarm condition and which provides a warning of the presence of smoke or fire. "Fire alarm" does not include an energy management system whose primary purpose is telecommunications with energy control, the monitoring of the interior environment being an incidental feature thereto.

| <b># of Questions</b> | <b>% Required to Pass</b> | <b>Total Time Allowed</b> |
|-----------------------|---------------------------|---------------------------|
| <b>50</b>             | <b>70% (35 correct)</b>   | <b>130 Minutes</b>        |

| <b>Subject Area</b>                                                                                                                                                                                                                                                                                                                                | <b># Test Items</b> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| General Electrical Knowledge                                                                                                                                                                                                                                                                                                                       | 10                  |
| Installation Requirements <ul style="list-style-type: none"> <li>a. Power Supplies</li> <li>b. Grounding and Bonding</li> <li>c. Raceways and Boxes</li> </ul>                                                                                                                                                                                     | 5                   |
| Wiring Methods and Materials <ul style="list-style-type: none"> <li>a. Signaling Circuits</li> <li>b. Conductors and Cables</li> </ul>                                                                                                                                                                                                             | 10                  |
| Special Occupancies and Conditions                                                                                                                                                                                                                                                                                                                 | 5                   |
| Application of Fire Alarm Systems <ul style="list-style-type: none"> <li>a. General</li> <li>b. Installation</li> <li>c. Audible Alarm Notification</li> <li>d. Heat Sensing Equipment</li> <li>e. Smoke Detection Equipment</li> <li>f. Testing and Inspections</li> <li>g. Visual Alarm Notification</li> <li>h. Supervisory Stations</li> </ul> | 20                  |

## BUSINESS AND LAW EXAMINATION

| # of Questions | % Required to Pass | Total Time Allowed |
|----------------|--------------------|--------------------|
| 50             | 70% (35 correct)   | 130 Minutes        |

### CONTENT OUTLINE

| Subject Area           | # Test Items |
|------------------------|--------------|
| Business Organization  | 2            |
| Licensing              | 5            |
| Estimating and Bidding | 7            |
| Contract Management    | 8            |
| Project Management     | 5            |
| Risk Management        | 4            |
| Safety                 | 4            |
| Labor Law              | 4            |
| Financial Management   | 5            |
| Tax Law                | 3            |
| Lien Law               | 3            |

## ELECTRONIC SECURITY SYSTEM EXAMINATION

"Electronic security system" means a security system comprised of an interconnected series of devices or components, including systems with audio and video signals or other electronic systems, which emits or transmits an audible, visual or electronic signal warning of intrusion and provides notification of authorized entry or exit, which is designed to discourage crime. "Electronic security systems" include access control systems, CCTV systems, intercom systems and other electronic monitoring devices.

| # of Questions | % Required to Pass | Total Time Allowed |
|----------------|--------------------|--------------------|
| 50             | 70% (35 correct)   | 165 Minutes        |

### CONTENT OUTLINE

| Subject Area                                                                                                                                                                                                                                                    | # Test Items |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| General Electrical Knowledge <ul style="list-style-type: none"><li>a. Ohms Law</li><li>b. General Requirements</li><li>c. Grounding</li><li>d. Low Voltage Circuits</li><li>e. Raceways</li><li>f. Conductors and Cables</li><li>g. Optic Fiber Cable</li></ul> | 17           |
| CCTV Systems                                                                                                                                                                                                                                                    | 13           |
| Access Control Systems                                                                                                                                                                                                                                          | 12           |
| Intercom Systems                                                                                                                                                                                                                                                | 8            |

## BURGLAR ALARM EXAMINATION

Scope – "Licensee" means a person licensed to engage in the burglar alarm business, the fire alarm business, or the provision of locksmithing services pursuant to N.J.S.A. 45:5A-27 and the provisions of this chapter.

"Burglar alarm" means a security system comprised of an interconnected series of alarm devices or components, including systems interconnected with radio frequency signals, which emits an audible, visual or electronic signal indicating an alarm condition and providing a warning of intrusion, which is designed to discourage crime.

| # of Questions | % Required to Pass | Total Time Allowed |
|----------------|--------------------|--------------------|
| 50             | 70% (35 correct)   | 165 Minutes        |

#### **CONTENT OUTLINE**

| Subject Area                                                                                                                                                               | # Test Items |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| General Electrical Knowledge<br>a. Ohm's Law<br>b. General Requirements<br>c. Voltage Drop including calculations<br>d. Power Supply and Resistance including calculations | 20           |
| Installation Requirements<br>a. Power Supplies<br>b. Grounding and Bonding<br>c. Raceways and Boxes                                                                        | 5            |
| Wiring Methods and Materials<br>a. Signaling Circuits<br>b. Conductors and Cables                                                                                          | 10           |
| Application of Burglar Systems<br>a. Burglar Alarm Panels<br>b. Controls including Sensors and Switches<br>c. Notification Equipment<br>d. Intrusion Detection             | 15           |

#### **BUSINESS AND LAW EXAMINATION**

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|----------------|--------------------|--------------------|
| 50             | 70% (35 correct)   | 130 Minutes        |

#### **CONTENT OUTLINE**

| Subject Area           | # Items Test |
|------------------------|--------------|
| Business Organization  | 2            |
| Licensing              | 5            |
| Estimating and Bidding | 7            |
| Contract Management    | 8            |
| Project Management     | 5            |
| Risk Management        | 4            |
| Safety                 | 4            |
| Labor Law              | 4            |
| Financial Management   | 5            |
| Tax Law                | 3            |
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### CONTENT OUTLINE

| Subject Area                                                                                                                                                                                                                                                    | # Items Test |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| General Electrical Knowledge <ul style="list-style-type: none"><li>a. Ohms Law</li><li>b. General Requirements</li><li>c. Grounding</li><li>d. Low Voltage Circuits</li><li>e. Raceways</li><li>f. Conductors and Cables</li><li>g. Optic Fiber Cable</li></ul> | 17           |
| CCTV Systems                                                                                                                                                                                                                                                    | 13           |
| Access Control Systems                                                                                                                                                                                                                                          | 12           |
| Intercom Systems                                                                                                                                                                                                                                                | 8            |

## LOCKSMITH EXAMINATION

Scope - The purpose of the Locksmith Examination is to test a candidate's understanding of the installation, maintenance, repair, and general understanding of locks, and electronic locking devices.

"Locksmithing services" means the modification, recombination, repair or installation of mechanical locking devices and electronic security systems for any type of compensation and includes repairing, rebuilding, recoding, servicing, adjusting, installing, manipulating or bypassing of a mechanical or electronic locking device, for controlled access or egress to premises, vehicles, safes, vaults, safe doors, lock boxes, automatic teller machines, or other devices for safeguarding areas where access is meant to be limited. Locksmithing services also means operating a mechanical or electronic locking device, safe or vault by means other than those intended by the manufacturer of such locking devices, safes or vaults, and consulting and providing technical advice regarding selection of hardware and locking systems of mechanical or electronic locking devices and electronic security systems. "Locksmithing services" does not include the installation of a prefabricated lock set and door knob into a door of a resident.

| # of Questions | % Required to Pass | Total Time Allowed |
|----------------|--------------------|--------------------|
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### CONTENT OUTLINE

| Subject Area                                                                                                                                                                                       | # Items Test |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Barrier Free Requirement                                                                                                                                                                           | 5            |
| Cylinder Servicing, High Security Cylinders, and Wafer Tumbler Cylinders <ul style="list-style-type: none"><li>a. Servicing</li><li>b. High Security and Safes</li><li>c. Wafer Tumblers</li></ul> | 5            |
| Exit Hardware and Door Closers                                                                                                                                                                     | 5            |
| Lock Set Functions and Installations                                                                                                                                                               | 5            |
| Lock Opening Techniques                                                                                                                                                                            | 5            |

|                                       |   |
|---------------------------------------|---|
| Keys and Keying                       | 5 |
| Lock Codes and Code Cutting Equipment | 5 |
| Combination Locks                     | 5 |
| Access Control                        | 5 |
| Electronic Systems                    | 5 |

## **BUSINESS AND LAW EXAMINATION**

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### **CONTENT OUTLINE**

| Subject Area                                                                                                                                                                                                                                                            | # Items Test |
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| General Electrical Knowledge <ul style="list-style-type: none"> <li>a. Ohms Law</li> <li>b. General Requirements</li> <li>c. Grounding</li> <li>d. Low Voltage Circuits</li> <li>e. Raceways</li> <li>f. Conductors and Cables</li> <li>g. Optic Fiber Cable</li> </ul> | 17           |
| CCTV Systems                                                                                                                                                                                                                                                            | 13           |
| Access Control Systems                                                                                                                                                                                                                                                  | 12           |
| Intercom Systems                                                                                                                                                                                                                                                        | 8            |