



NATIONAL ELECTROLOGY
WRITTEN EXAMINATION

CANDIDATE INFORMATION BULLETIN

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The National Electrology examination is the national licensure examination for Electrologists, which is developed and administered by the National-Interstate Council of State Boards of Cosmetology (NIC). This Candidate Information Bulletin includes the content outline covered by the NIC National Electrology examination. The time allowed for the Electrology written examination is 90 minutes.

HYGIENE
5%

Personal Hygiene

- ◇ Grooming
- ◇ Hand sanitizing

Public Hygiene (Disease Control)

- ◇ Types of diseases
- ◇ Protection (Barriers to disease)
 - Gloves
 - Drapes
 - Masks

SCIENTIFIC CONCEPTS
45%

Infection Control

- ◇ Disease
 - Growth & reproduction
 - Infection transmission
- ◇ Infection control procedures
 - Methodology
 - Chemical agents
- ◇ Sterilization procedures
 - Moist heat
 - Dry heat
 - Chemical
- ◇ Infection control
 - OSHA standards
 - NIC standards
 - CDC standards
- ◇ Safety procedures
 - Blood spill
 - Chemicals

Basic Electricity

- ◇ Types
 - Direct current
 - Alternating current
- ◇ Terminology

- ◇ Modalities
 - Electrolysis
 - Thermolysis
 - Blend

Basic Chemistry

- ◇ Galvanic action
- ◇ Organic vs. Inorganic
- ◇ pH factor

Human Physiology

- ◇ Endocrine system
- ◇ Circulatory system
- ◇ Nervous system
- ◇ Histology of skin
 - Structure
 - Functions
 - Disorders
- ◇ Histology of hair
 - Structure
 - Types
 - Hair growth cycles
 - Excessive hair growth

HAIR REMOVAL
50%

Consulting & Record Keeping

- ◇ Confidentiality
- ◇ Client record
 - Medical history
 - Contraindications

Safety

- ◇ Treatment room preparation
- ◇ Insurance
 - Liability
 - Malpractice
- ◇ Equipment & supplies
 - Grounded plugs
 - Equipment instructions
 - Testing & calibration
 - Needles
 - FCC approval
- ◇ Sterilization

- ◇ Sanitation
- ◇ Disinfection
 - Equipment
 - Supplies
- ◇ Client
 - Use of draping
 - Eye protection

Electrolysis

- ◇ Reason for use
- ◇ Effects of electrolysis
- ◇ Procedure
 - Positioning
 - Analysis of client needs
 - Insertion of needle
 - Reanalysis & adjustments
 - Post treatment
- ◇ Equipment & supplies
 - Polarity
 - Conductivity

Thermolysis

- ◇ Types
 - Manual
 - Automatic
- ◇ Reason for use
- ◇ Effects of thermolysis
- ◇ Procedure
 - Positioning
 - Analysis of client needs
 - Insertion of needle
 - Reanalysis & adjustments
 - Post treatment

Blend

- ◇ Types
 - Manual
 - Automatic
- ◇ Reason for use
- ◇ Effects of blend
- ◇ Procedure
 - Positioning

- Analysis of client needs
- Insertion of needle
- Reanalysis & adjustments
- Post treatment
- ◇ Equipment & supplies
 - Polarity
 - Conductivity

Temporary Hair Removal

- ◇ Effects of physical
 - Shaving
 - Tweezing
- ◇ Effects of chemical

SAMPLE QUESTIONS

The following sample questions are similar to those on the NIC Electrology Written Examination. Each question is followed by four answer choices. Only one choice is correct. Correct answers are listed following the sample questions.

1. Disease producing bacteria are called
 - a. hyperemia.
 - b. pathogenic.
 - c. hypo-allergenic.
 - d. non-pathogenic.
2. Which of the following would result in the GREATEST production of lye?
 - a. Increase both current and time
 - b. Decrease both current and time
 - c. Increase current and decrease time
 - d. Decrease current and increase time

3. Hair grows from the papilla by multiplication of the
 - a. matrix cells.
 - b. stratum lucidum.
 - c. papillary layer.
 - d. reticular region.

4. What temporary method of hair removal accelerates the shedding of the horny layer of the skin?
 - a. Bleaching
 - b. Depilatory
 - c. Threading
 - d. Clipping

5. Electrolysis is recognized as the only proven method of permanent hair removal by the
 - a. Environmental Protection Agency (EPA).
 - b. Food and Drug Administration (FDA).
 - c. Centers for Disease Control (CDC).
 - d. Occupational Safety and Health Administration (OSHA)

**ELECTROLOGY
REFERENCES**

Electrolysis, Thermolysis, and the Blend
The Principles and Practices of Permanent Hair Removal, 9th ed., 1994
 Arroway Publishing

Modern Electrology: Excess Hair, Its Causes and Treatments, 1987
 Milady
 5 Maxwell Drive
 Clifton Park, NY 12065
 (800) 730-2214
www.Milady.com

Cosmetic and Medical Electrolysis and Temporary Hair Removal
A Practice Manual and Reference Guide, 2nd Ed., 1997
 Medric Ltd.
 Toronto, Ontario
 (416) 590-9842

Infection Control Standards for the Practice of Electrology
 American Electrology Association

Answers	
1. b	4. b
2. a	5. b
3. a	

**OPTIONAL
REFERENCES**

NIC Health and Safety Standards
 NIC, Inc., October 2002
www.nicesting.org