

**Attachment #4 - New Jersey Examination Content Outline for HVACR
T2805 - Examinations Services for State Boards (Trades)
Bid Solicitation # 21DPP00597**

MASTER HVACR CONTRACTOR LICENSURE EXAMINATION

HVACR TRADE EXAMINATION

Scope – "Heating, ventilating, air conditioning, and refrigeration contracting" means undertaking or advertising to undertake, for a fixed price, fee, commission, or gain of whatever nature, the planning, laying out, installation, construction, maintenance, service, repair, alteration, or modification to any portion of any system, product, or equipment, or appurtenances used for the environmental needs or control of any heating, ventilating, air conditioning, and refrigeration system.

# of Questions	% Required to Pass	Time Allowed
50	70% (35 correct)	180 Minutes

CONTENT OUTLINE

Subject Area	# Items Test
Electrical Knowledge, Motors, and Controls	7
Piping - Refrigeration, Hydronic, Steam, Process	7
Heating and Cooling Principles, Theory, and Equipment	8
Refrigerants and Refrigeration	8
Fuel and LP Gas	5
Combustion Air, Chimneys, Flues and Vents	5
Ducts, Ventilation and Exhaust	5
Load Calculations	5

BUSINESS AND LAW EXAMINATION

# of Questions	% Required to Pass	Time Allowed
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
Lien Law	3