

Line	Previous	Previous Competencies	NEW NUMBER	NEW COMPETENCIES
68	1060_	10 Shop Drawings	BAUS 1000_	TRUCTURAL PRINTS
70	2010_	1 Psychrometrics	BUAS 1015_	1 PSYCHROMETRICS
71	2010_	2 All-air systems	BUAS 1015_	2 ALL-AIR SYSTEMS
72	2010_	3 All-Water Systems	BUAS 1015_	3 ALL-WATER SYSTEMS
73	2010_	5 Boiler Principles & Types	BUAS 1015_	2 ALL-AIR SYSTEMS
74	2010_	6 Chiller Principles & Types	BUAS 1015_	2 ALL-AIR SYSTEMS
75	2010_	7 Water-Side Devices	BUAS 1015_	4 WATER-SIDE DEVICES
76	2010_	8 Air-Side Devices	BUAS 1015_	5 AIR-SIDE DEVICES
77	2010_	9 Control Theory	BUAS 1015_	6 CONTROL THEORY
78	2010_	10 Control System Standards	BUAS 1015_	7 CONTROL SYSTEM STANDARDS
79	2010_	11 Applied Control Theory	BUAS 1015_	8 APPLIED CONTROL THEORY
80	2010_	12 Control Loop Application	BUAS 1015_	8 APPLIED CONTROL THEORY
11	1020_	1 Metric Units	BUAS 1025_	2 AC AND DC THEORY
12	1020_	2 Scientific Notation	BUAS 1025_	2 AC AND DC THEORY
13	1020_	3 Atomic Theory	BUAS 1025_	2 AC AND DC THEORY
14	1020_	4 Charge	BUAS 1025_	2 AC AND DC THEORY
15	1020_	5 Voltage	BUAS 1025_	2 AC AND DC THEORY
16	1020_	6 Current	BUAS 1025_	2 AC AND DC THEORY
17	1020_	7 Resistance	BUAS 1025_	2 AC AND DC THEORY
18	1020_	8 Conductors / Insulators	BUAS 1025_	4 ELECTRICAL DIAGRAMS AND CIRCUITS
19	1020_	9 Basic Electrical Circuits	BUAS 1025_	4 ELECTRICAL DIAGRAMS AND CIRCUITS
20	1020_	10 Electrical Safety	BUAS 1025_	1 SAFETY
21	1020_	11 Electrical Measurement Devices	BUAS 1025_	3 ELECTRIC METERS
22	1020_	12 Ohm's Law	BUAS 1025_	4 ELECTRICAL DIAGRAMS AND CIRCUITS
23	1020_	13 Series Circuits	BUAS 1025_	4 ELECTRICAL DIAGRAMS AND CIRCUITS
24	1020_	14 Parallel Circuits	BUAS 1025_	4 ELECTRICAL DIAGRAMS AND CIRCUITS
25	1020_	15 Series - Parallel Circuits	BUAS 1025_	4 ELECTRICAL DIAGRAMS AND CIRCUITS
26	1020_	16 Electrical Energy	BUAS 1025_	5 ELECTRICAL DISTRIBUTION SYSTEMS
27	1020_	17 Electrical Power	BUAS 1025_	5 ELECTRICAL DISTRIBUTION SYSTEMS
29	1030_	2 Reactive electrical components	BUAS 1025_	2 AC AND DC THEORY
30	1030_	3 Power distribution	BUAS 1025_	5 ELECTRICAL DISTRIBUTION SYSTEMS
31	1030_	4 Circuit Protection	BUAS 1025_	5 ELECTRICAL DISTRIBUTION SYSTEMS
32	1030_	5 Electric Motor Theory	BUAS 1025_	6 ELECTRICAL DISTRIBUTION SYSTEMS
33	1030_	6 Electric Generator Theory	BUAS 1025_	7 ELECTRICAL DISTRIBUTION SYSTEMS
28	1030_	1 Power supplies	BUAS 1035_	2 CONTROL COMPONENTS
34	1030_	7 Types of electric motors	BUAS 1035_	2 CONTROL COMPONENTS
35	1030_	8 Motor Starters	BUAS 1035_	2 CONTROL COMPONENTS
36	1030_	9 Switching Devices	BUAS 1035_	2 CONTROL COMPONENTS
37	1030_	10 Electrical Symbols	BUAS 1035_	3 CONTROL SYSTEMS
38	1030_	11 Pictorial Diagrams	BUAS 1035_	4 CONTROL SYSTEMS
39	1030_	12 Schematics	BUAS 1035_	5 CONTROL SYSTEMS
40	1030_	13 Sequences of Operation	BUAS 1035_	6 CONTROL SYSTEMS
41	1040_	1 Standard Input & Output Wiring	BUAS 1035_	6 CONTROL SYSTEMS
42	1040_	2 Temperature Devices	BUAS 1035_	7 CONTROL SYSTEMS
43	1040_	3 Humidity Devices	BUAS 1035_	8 CONTROL SYSTEMS
44	1040_	4 Pressure Devices	BUAS 1035_	9 CONTROL SYSTEMS
45	1040_	5 Flow Devices	BUAS 1035_	10 CONTROL SYSTEMS
46	1040_	6 Life & Equipment Safety Devices	BUAS 1035_	11 CONTROL SYSTEMS
47	1040_	7 Actuators & Dampers	BUAS 1035_	12 CONTROL SYSTEMS
48	1040_	8 Control Valves	BUAS 1035_	13 CONTROL SYSTEMS

49	1040_	9 Power Supplies	BUAS 1035_	14 CONTROL SYSTEMS
50	1040_	10 Transducers	BUAS 1035_	15 CONTROL SYSTEMS
51	1040_	11 Relays & Contactors	BUAS 1035_	16 CONTROL SYSTEMS
52	1040_	12 Motor Controls	BUAS 1035_	17 CONTROL SYSTEMS
53	1040_	13 Enclosures	BUAS 1035_	18 CONTROL SYSTEMS
54	1040_	14 Power Monitoring Devices	BUAS 1035_	19 CONTROL SYSTEMS
81	2020_	1 History of Logic	BUAS 1045_	3 BOOLEAN EXPRESSIONS AND TOOLS
82	2020_	2 Logical Form	BUAS 1045_	3 BOOLEAN EXPRESSIONS AND TOOLS
83	2020_	3 Truth Tables	BUAS 1045_	3 BOOLEAN EXPRESSIONS AND TOOLS
84	2020_	4 Rules of Inference	BUAS 1045_	3 BOOLEAN EXPRESSIONS AND TOOLS
85	2020_	5 Boolean Expressions	BUAS 1045_	3 BOOLEAN EXPRESSIONS AND TOOLS
86	2020_	6 Combinational Boolean Logic	BUAS 1045_	3 BOOLEAN EXPRESSIONS AND TOOLS
87	2020_	7 Digital Logic Circuits	BUAS 1045_	4 GATE LOGIC
88	2020_	8 Programming Introduction	BUAS 1045_	7 CONFIGURING MICROCONTROLLERS
56	1050_	2 Standards Organizations	BUAS 1055_	2 CABLE STANDARDS
98	2030_	6 Control System Installation	BUAS 1055_	4 INSTALLATION OF CABLING SYSTEMS
94	2030_	2 NEC code	BUAS 1065_	1 THE NATIONAL ELECTRICAL CODE
95	2030_	3 GA State Codes	BUAS 1065_	8 NEC AND LOW-VOLTAGE SYSTEMS
96	2030_	4 Local Codes	BUAS 1065_	8 NEC AND LOW-VOLTAGE SYSTEMS
67	1060_	9 Ladder Logic	BUAS 1070_	5 PLC PROGRAMMING BASICS
55	1050_	1 Network Fundamentals	BUAS 1080_	8 NETWORKS
57	1050_	3 OSI Model	BUAS 1080_	7 ETHERNET COMMUNICATIONS
58	1050_	4 Internet Protocol	BUAS 1080_	7 ETHERNET COMMUNICATIONS
59	1050_	5 Network Signal Transmission	BUAS 1080_	7 ETHERNET COMMUNICATIONS
60	1050_	6 Network Media	BUAS 1080_	1 I/O NETWORK MEDIA
61	1050_	7 Cabling Standards	BUAS 1080_	1 I/O NETWORK MEDIA
62	1050_	8 Protocols	BUAS 1080_	9 AUTOMATION PROTOCOLS
63	1050_	9 Physical Topologies	BUAS 1080_	3 NETWORK TOPOLOGIES
64	1050_	10 Logical Topologies	BUAS 1080_	3 NETWORK TOPOLOGIES
65	1050_	11 Network Hardware	BUAS 1080_	8 NETWORKS
66	1050_	12 Typical BAS Networks	BUAS 1080_	8 NETWORKS
69	1060_	11 Microsoft Visio Fundamentals	BUAS 1080_	3 NETWORK TOPOLOGIES
101	2040_	2 TCP/IP	BUAS 1080_	9 AUTOMATION PROTOCOLS
102	2040_	3 Network Packets	BUAS 1080_	9 AUTOMATION PROTOCOLS
103	2040_	4 Modbus	BUAS 1080_	9 AUTOMATION PROTOCOLS
104	2040_	5 Lonworks	BUAS 1080_	9 AUTOMATION PROTOCOLS
105	2040_	6 BACnet	BUAS 1080_	9 AUTOMATION PROTOCOLS
106	2040_	7 Niagara AX	BUAS 1080_	9 AUTOMATION PROTOCOLS
100	2040_	1 OSI Model	BUAS 2025_	4 NETWORK MANAGEMENT
1	1010_	1 History of BAS industry	BUAS 2030_	1 SCOPE OF ASHRAE GUIDELINE 13
2	1010_	2 Scope of BAS industry	BUAS 2030_	1 SCOPE OF ASHRAE GUIDELINE 13
3	1010_	3 Major commercial building systems	BUAS 2030_	2 BUILDING AUTOMATION OVERVIEW
4	1010_	4 Contracting basics	BUAS 2030_	4 SPECIFICATION PART 1: GENERAL
5	1010_	5 BAS manufacturers, contractors, service companies, and suppliers	BUAS 2030_	4 SPECIFICATION PART 1: GENERAL
6	1010_	6 Skill sets required for BAS installers, technicians, and salespeople	BUAS 2030_	4 SPECIFICATION PART 1: GENERAL
7	1010_	7 Basic BAS inputs / outputs	BUAS 2030_	5 SPECIFICATION PART 2: PRODUCTS
8	1010_	8 Types of BAS control systems	BUAS 2030_	5 SPECIFICATION PART 2: PRODUCTS
9	1010_	9 General BAS architecture	BUAS 2030_	3 DESIGN AND CONSTRUCTION
10	1010_	10 Trends in BAS industry	BUAS 2030_	2 BUILDING AUTOMATION OVERVIEW
93	2030_	1 BAS Industry Contracting	BUAS 2030_	1 SCOPE OF ASHRAE GUIDELINE 13
97	2030_	5 Control System Design Process	BUAS 2030_	3 DESIGN AND CONSTRUCTION

99	2030_	7 Control System Commissioning
89	2020_	9 Common Elements of Programming Languages
90	2020_	10 Introduction to Object Oriented Programming
91	2020_	11 Data Types
92	2020_	12 Programming Style

BUAS 2030_	6 SPECIFICATION PART 3: EXECUTION
BUAS 2040_	1 BASIC CODING RULES
BUAS 2040_	11 OBJECT-ORIENTED PROGRAMMING (OOP)
BUAS 2040_	5 LISTS AND ARRAYS
BUAS 2040_	10 DESIGN