I. General Musical Background

A. History of music; Music literature
   A basic knowledge of these subjects is highly recommended.
   Suggested text:
   Pogue, David, Classical Music for Dummies, Hungry Minds, 1997
   Grout, Donald, A History of Western Music, W.W. Norton, 1960

B. Theory of Music; Ear training; Keyboard harmony
   Some knowledge of these subjects is recommended.
   Suggested text:
   Music Theory Made Easy, Musical Press, 1994

C. Applied Music
   Some keyboard background is highly recommended.

II. Introduction to Organ Building

1. Biggs, The Organ in Sight and Sound (record)
3. Williams, The European Organ, pp 15-24
4. Klotz, pp 11-101
5. Robertson, pp 1-10
6. Blanton, The Organ in Church Design, pp 3-68

III. History of the Organ

1. Williams, The European Organ, pp 24-260
2. Hopkins and Rimbault, pp 1-169
4. Andersen, pp 105-264
5. Klotz, pp 135-169
7. Ochse, all
8. Sumner, pp 15-266
10. Bunjes, pp 247-845
IV. General Woodworking

A. Use and maintenance of tools and machinery
   1. Take advantage of any courses offered locally
   2. Feirer, *Cabinetmaking and Millwork*

B. Materials: Wood, Glues, Fastenings
   2. Hoadley, *Understanding Wood*, all
   3. Constantine, *Know Your Woods*, all
   4. Glover, pp 258-263

C. Basic Joinery
   Hoadley, pp 164-179

D. Wood Finishing
   1. Hoadley, pp 180-189
   2. Glover, pp 267-270
   3. Flexner, Bob, *Understanding Wood Finishing*

V. Acoustics and Architecture

   1. Culver, all
   2. Knutsen and Harris, all
   3. Bolt, Beranek and Newman, all
   4. Klotz, pp 102-116
   5. Andersen, pp 297-343
   6. Sumner, pp 257-266
   7. Barnes, pp 340-344

VI. Metalworking

A. Materials

B. Tools
VII. Technical Design and Execution

A. Basic Drafting
Some knowledge of basic drafting is recommended.
Segel, *Drafting Made Simple*

B. Practical Mathematics
Some knowledge recommended.
Glover, *Pocket Reference*

C. Strength of Materials
2. Hoadley, pp 106-135
3. Glover, *Pocket Reference*

D. Mechanical Design, Layout, Structure
1. Andersen, pp 92-104
2. Hopkins and Rimbault, pp 287-306 and pp 9-45
4. Bunjes, pp 247-436

E. Case Design and Visual Layout
2. Hopkins and Rimbault, pp 278-286
3. Andersen, pp 265-296
5. Blanton, *The Revival of the Organ Case*, all

VIII. Tonal Design

A. Stoplist
1. Robertson, pp 104-131, 280-324
2. Klais-Blanchard, *The Organ Stoplist*, all
4. Andersen, pp 31-57
5. Bunjes, pp 63-231
6. Hopkins and Rimbault, par.530-675 (pp 128-150)
7. Audsley, *Organ Stops*, all
8. Jamison, all

B. Scaling
2. Davy, pp 45-57
3. Hopkins-Rimbault, chap. Xxv, pp 151-159
4. Andersen, pp 36-56
5. AIO convention monographs
C. Voicing: Flues
   1. Barnes, pp 85-90
   2. Monette, all
   4. Robertson, pp 241-258

D. Voicing: Reeds
   1. Bonavia-Hunt, The Organ Reed, all
   2. Sumner, pp 271-276
   3. Robertson, pp 258-260

E. Tuning
   1. Isacoff, Stuart, Temperament, A. Knopf, 1961, all
   2. Smith, all
   3. Robertson, pp 260-268
   4. Jorgensen, Tuning, all
   5. ISO Information, section on tuning

IX. Chest Building
   A. Electro-Mechanical
      1. Barnes, Chapter 10
      2. Lectures from ’73 AIO Convention

   B. Pitman and Ventil
      1. Barnes, Contemp. Amer. Organ, pp 263-416, and Chap. 10
      2. Andersen, Chapter 5
      3. Lectures from ’73 AIO Convention

   C. Slider
      2. Hopkins and Rimbault, pp 27-46
      3. ISO Information, section F,2
      4. Lectures from ’73 AIO Convention

X. Pipe Making
   A. Metal
      1. Hopkins and Rimbault, pp 96-100
      2. Robertson, pp 84-87
      3. Audsley, Chapter 35
      4. Barnes, pp 29-31

   B. Flues
      1. Hopkins and Rimbault, pp 101-119
      2. Robertson, pp 88-92
      3. Sumner, pp 280-281
      4. Audsley, Chapter 36
      5. Barnes, pp 31-36
C. Reeds
   1. Bonavia-Hunt, The Organ Reed, all
   2. Audsley, Chapter 34
   3. Barnes, pp 55-57
   4. Robertson, pp 92-97

D. Wood Pipes
   1. Audsley, Chapter 34
   2. Barnes, pp 40-43
   3. Sumner, pp 277-279
   4. Hopkins and Rimbault, pp 101-119
   5. Robertson, pp 97-103

XI. Console and Action

A. Tracker
   1. Hopkins and Rimbault, pp 47-58
   2. Audsley, Chapter 20
   3. Barnes, pp 186-189

B. Electric
   1. Barnes, pp 192-204
   2. Hopkins and Rimbault, pp 69-87
   4. OSI Catalog
   5. Glover, pp 109-150

C. Pneumatic
   1. Audsley, Chapter 31
   2. Barnes, p.189
   3. Hopkins and Rimbault, pp 59-62
   4. Sumner, pp 337-348

D. Keymaking
   1. Audsley, Chapter 19
   2. Hopkins and Rimbault, pp 47-50

E. Stop Actions
   1. Audsley, Chapter 30
   2. Hopkins and Rimbault, pp 63-66

F. Combination Actions
   1. Audsley, Chapter 32
   2. Barnes, p.206
   3. Sumner, pp 358-362
   4. Hopkins and Rimbault, pp 88-90

G. Pedalboards
   1. Audsley, Chapter 21
   2. Barnes, p.201
   3. Hopkins and Rimbault, pp 47-50
   4. Robertson, pp 178-179
XII. Wind Systems
   1. Hopkins and Rimbault, pp 9-26
   2. Klotz, pp 12-17
   3. Audsley, pp 675-704
   4. Robertson, pp 156-174

XIII. Business Administration and Management

   We suggest taking a general business course at the nearest college.
   1. Lasser, all
   2. Bygrave, Wm., Portable MBA in Entrepreneurship, Wiley, ’97

XIV. Organ Servicing (see also tuning and related subjects)

   1. Hopkins and Rimbault, pp 201-213
   2. Klotz, pp 122-129 (except part on cone-tuning)
   3. Andersen, pp 323-336

XV. Restoration

   1. OHS Guidelines
   2. Andersen, pp 338-342
   3. ISO Publications
   4. The Tracker, Vol.46, #3 (July, ’02), pp 22-34

AIO Exam Committee, Revised September, 2002