



Preparing for the Council-certified Structural Drying Remediator (CSDR) and Council-certified Structural Drying Supervisor (CSDS) Examination

Examination Reference Materials:

The CSDR/CSDS examination is based on standard industry reference texts, not on a particular course curriculum. Examination items are drawn directly from the following references:

- American Council for Accredited Certification, *Code of Conduct* (www.acac.org)
- ANSI/IICRC, Standard S500-2006: *Standard and Reference Guide for Professional Water Damage Restoration*, 3rd edition (Vancouver, WA: IICRC, 2006) **OR** ANSI/IICRC, S500-2015, *Standard and Reference Guide for Professional Water Damage Restoration*, 4th edition (LasVegas: IICRC, 2015).
- Ken Larsen, et. al., *Leadership in Restorative Drying*, (Wood Dale, IL: Restoration Leadership Institute, 2010) OR 3rd edition (2011) OR 4th edition (2014).
- *NIOSH Respirator Selection Logic 2004* (www.acac.org/forms.rclibrary/nioshresp2004.pdf)

Examination Topics:

The CSDR/CSDS closed book examination covers **four topic areas** relevant to structural drying. The CSDR/CSDS examination contains 120 multiple choice questions. For a detailed list of the knowledge and skills tested within each topic area, consult the CSDR and CSDS application booklets.

Topic Areas:

- 1.0 A CSDS/R understands and abides by the ACAC Code of Conduct.**
- 2.0 A CSDS/R understands guidelines, regulations and standards relevant to the structural drying industry as they relate to:**
 - 2.1 The OSHA general duty clause
 - 2.2 Personal protective equipment
 - 2.3 Emergency action and fire prevention plans
 - 2.4 Confined space entry
 - 2.5 Hazardous atmospheres and materials
 - 2.6 Walking and working surfaces
 - 2.7 Ladders, scaffolding & warning signs
- 3.0 A CSDS/R applies knowledge of principles, strategies and equipment to the design and execution of structural drying projects. In particular:**
 - 3.1 The CSDS/R understands the basic principles of psychrometry and hygroscopic materials, including those related to:
 - 3.1.1 Temperature
 - 3.1.2 Vapor Pressure
 - 3.1.3 Humidity
 - 3.1.4 Heat
 - 3.1.5 The psychrometric chart
 - 3.1.6 Phases of water
 - 3.1.7 Behavior of water in wood
 - 3.1.8 Equilibrium Moisture Content (EMC)
 - 3.1.9 Behavior of water in cementitious materials



- 3.2 The CSDS/R correctly applies scientific principles in the design of effective drying strategies, including those related to:
 - 3.2.1 Dalton's evaporation formula
 - 3.2.2 Understanding vapor pressure in hygroscopic materials
 - 3.2.3 Developing open, closed and combination drying strategies
- 3.3 The CSDS/R selects and operates appropriate drying equipment in the execution of structural drying projects, including:
 - 3.3.1 Equipment appropriate for various classes of water
 - 3.3.2 Air movers
 - 3.3.3 Dehumidifiers
 - 3.3.4 Portable cooling equipment
 - 3.3.5 Portable heating equipment
 - 3.3.6 Ductwork and building HVAC systems
 - 3.3.7 Dehumidification formulas

4.0 A CSDS/R correctly designs and executes the phases of a structural drying project, including:

- 4.1 Project documentation
- 4.2 Project planning
- 4.3 Structural drying procedures
- 4.4 Special considerations (HVAC, microbial contamination, etc.)
- 4.5 Drying validation
- 4.6 Large project management

Recommended Study Procedures:

To prepare for the CSDR/CSDS exam, first read the reference texts listed above in their entirety. Then review the following sections from each text in more detail.



WARNING: Limiting your study to only the following pages will put you in danger of failing the exam. The exam assumes a comprehensive knowledge of each reference text.



1. IICRC, S500

3rd Edition (2006)

Standards 1.3; 3; 6.2; 7.1; 7.2; 7.3; 7.3.2.1; 7.4; 7.9; 7.11; 7.12; 8.2; 8.4; 8.6; 9.5; 9.6; 9.7; 10.1; 10.3; 12.1; 12.3; 12.4; 12.5; 13.1; 13.2; 13.3; 15.5 and 15.7.

4th Edition (2015)

Pages 9, 10, 12, 13, 30, 33, 61, 93, 148, 149, 159, 165, 198, 200, 204, 215, 221, 224, 256, 258, 259, 266, 267, 270, 271, 272, 277, 294, 303 and 326

Standards B, 13.1, 13.3, 16.8, 1.2.3.1, 10.6.6, 13.3.5, 13.4.4, 13.5.5.1.1, 14.2.4, 17.3.2 and 9.2.3

2. Larsen, et. al., *Leadership in Restorative Drying*

First Edition (2010)

Pages 26, 52, 53, 57, 60, 63, 73, 74, 75, 76, 82, 83, 84, 87, 91, 93, 95, 102, 103, 104, 116, 117, 123, 136, 138, 147, 148, 157, 158, 160, 166, 167, 170, 171, 172, 174, 178, 181, 182, 183, 185, 187, 189, 226 and 227.

Third Edition (2011)

Pages 26, 50, 51, 56, 59, 62, 71, 72, 80, 81, 82, 83, 84, 85, 86, 87, 88, 91, 100, 101, 102, 114, 115, 116, 121, 134, 135, 144, 145, 155, 156, 157, 163, 164, 168, 169, 171, 172, 176, 180, 181, 183, 185, 186, 187, 224 and 225.

Fourth Edition (2014)

6, 48, 49, 72, 86, 90, 102, 120, 125, 133, 136, 137, 147, 148, 151, 153, 154, 155, 157, 186, 187, 188, 193, 209, 213, 214, 224, 243, 248, 262, 293, 298, 309, 312, 314, 316, 317, 326, 340, 342, 347, 357, 380, 381 and 429

3. NIOSH Respirator Selection Logic (2004)

Pages 1, 4, 5, 8, 13, 19, 20 and 22