



Building
the foundation
for Oregon's future

Residential Structural Inspector and Plans Examiner Course Syllabus – Summer 2024

Class days - Tuesday and Thursday, 1- p.m.

Progress exam days – Online unless otherwise communicated 1:00-5:00 p.m.

Please note: this syllabus is a guideline. As the course proceeds some lessons may take longer to complete, which will bump future lessons forward and lesson dates may no longer be accurate. However, the lessons and associated homework will remain the same even if the dates change. This would bump the dates of progress exams as well.

CAS Residential Structural Inspector: Module 1

Week 1 (July 9 & 11)

**July 9: first day of course,
attendance via webcam & mic
required, 1-5pm**

- Welcome, student roles and responsibilities, review of course details
- Ethics presentation
- **Lesson 1: Administration**

Week 2 (July 16 & 18)

- **Lesson 2: Building Planning, part 1**

Week 3 (July 23 & 25)

- **Lesson 3: Building Planning, part 2**

Week 4 (July 30 & August 1)

- **Lesson 4: Foundation Construction**

Week 5 (August 6 & 8)

- **Lesson 5: Floor Framing and Decks**

Week 6 (August 13 & 15)

- **Review lessons 1 thru 5**
- August 15: attendance via webcam & mic required, 1-5pm**
- **Progress exam #1: 52 questions from lessons 1 - 5**

Week 7 (August 20 & 22)

- **Lesson 6: General Structural Framing**
- **Lesson 7: Wall Bracing, Part 1**

Week 8 (August 27 & 29)

- **Lesson 7: (Continued)**
- **Lesson 8: Wall Bracing, Part 2**

Week 9 (September 3 & 5)

- **Lesson 8: (Continued)**
- **Lesson 9: Wall Coverings**

Week 10 (September 10 & 12)

- **Lesson 10: Roof-Ceiling Construction**
- **Lesson 11: Roof Assemblies**

Week 11 (September 17 & 19)

- **Review lessons 6 thru 11**
- September 19: attendance via webcam & mic required, 1-5pm**
- **Progress exam #2: 52 questions from lessons 6 - 11**

Week 12 (September 24 & 26)

- **Lesson 12: Chimneys and Fireplaces**
- **Lesson 13: Introduction to Mechanical**

Week 13 (October 1 & 3)

- **Lesson 14: Mechanical Basics**
- **Lesson 15: Ducts & Venting**

Week 14 (October 8 & 10)

- **Lesson 16: Fuel-Gas Introduction & Gas Venting**

Week 15 (October 15 & 17)

- **Lesson 17: Gas Piping**

Week 16 (October 22 & 24)

- Exam review/study time

Week 17 (October 29 & 31)

- Exam review/study time
- October 31: attendance via webcam & mic required, 1-5pm**
- **Progress Exam #3: 52 questions from lessons 12 - 17**

Week 18 (November 5 & 7)

- **Lesson 18: Energy Efficiency**
- **Lesson 19: Radon/Swim Pools**

Week 19 (November 12 & 14)

- **Lesson 20: Virtual Inspections**

Week 20 (November 19 & 21)

- **Lesson 21: Final Inspection**

November 26 & 28: No Class

Week 21 (December 3 & 5)

- **Lesson 22: Manufactured Homes**
- Course review

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Week 22 (December 10 & 12)

- Course review and exam prep

Week 23 (December 17 & 19)

December 17: attendance via webcam & mic required, 1-5pm

- **Progress exam #4:** 52 questions from lessons 1 – 21 (ORSC Chapters 1 – Appendix G)
- Review Progress exam #4

**December 24 – January 2:
No Class**

**CAX Residential Plans Examiner:
Module 2**

Week 1 (January 7 & 9)

- **Lesson 1:** General Understanding
- **Lesson 2:** Plan Review Basics

Week 2 (January 14 & 16)

- **Lesson 3:** Architectural Plan Review

Week 3 (January 21 & 23)

- **Lesson 4:** Structural Load Path

Week 4 (January 28 & 30)

- **Lesson 5:** Roof Framing
- **Lesson 6:** Braced Wall Panels- Pt.#1

Week 5 (February 4 & 6)

- **Lesson 6:** (Continued)
- **Lesson 7:** Braced Wall Panels- Pt. 2

Week 6 (February 11 & 13)

- **Lesson 7:** (Continued)
- **Lesson 8:** Floor Framing

Week 7 (February 18 & 20)

- **Lesson 8:** (Continued)
- **Lesson 9:** Footings & Foundations

Week 8 (February 25 & 27)

- **Lesson 9:** (Continued)
- **Lesson 10:** Plan check wrap-up

Week 9 (March 4 & 6)

March 4: online practice exam w/plans

- **Based on CAX lessons 1–21 (ORSC Chapters 1-Appendix G)**
- Practice Exam Review

Week 10 (March 11 & 13)

March 11: Attendance via webcam & mic required, 1-5pm

- Review Progress Exam (Attendance not mandatory)

March 13 – Projected last day of class.

Possible extension of course of up to two weeks – TBA by mid-February, 2024.