



Building
the foundation
for Oregon's future

Residential Structural Inspector and Plans Examiner Course Syllabus – Fall 2025

Class days - Tuesday and Thursday, 1- 3 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 (November 4 and 6)

November 4: 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**

November 11: No class

Week 2 (November 13)

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

Week 3 (November 18 & 20)

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

Week 4 (November 25)

- **Lesson 4: Foundation Construction**

November 27: No class

Week 5 (December 2 & 4)

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

Week 6 (December 9 & 11)

- Review lessons 1-5

December 11: attendance via webcam & mic required, 1-5pm

- **Progress exam #1: 52 questions from lessons 1 - 5**

Week 7 (December 16 & 18)

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

Week 8 (December 23)

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

**Winter Break: No class
December 23 to January 1**

2026

Week 9 (January 6 & 8)

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

Week 10 (January 13 & 15)

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

Week 11 (January 20 & 22)

- Review lessons 6-11

January 22: attendance via webcam & mic required, 1-5pm

- **Progress exam #2: 52 questions from lessons 6 - 11**

Week 12 (January 27 & 29)

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

Week 13 (February 3 & 5)

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

Week 14 (February 10 & 12)

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

Week 15 (February 17 & 19)

- **Lesson 17: Gas Piping**

Week 16 (February 24 & 26)

- Exam review/study time

Week 17 (March 3 & 5)

- Exam lessons 12-17

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

- **Progress Exam #3: 52 questions from lessons 12 - 17**

Week 18 (March 10 & 12)

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

Week 19 (March 17 & 19)

- **Lesson 20: Virtual Inspections**

**Spring break:
No class March 24 & 25**

Week 20 (March 31 & April 2)

- Lesson 21: Final Inspection

Week 21 (April 7 & 9)

Manufactured Homes

- Lesson 22a: MHI-structural
- Lesson 22b: MHI-electrical

Week 22 (April 14 & 16)

- Lesson 22c: MHI-plumbing
- Course review and exam prep

Week 23 (April 21 & 23)

- Review course

April 23: 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

- Lesson 10: Plan check wrap-up

Week 9 (June 23 & 25)

- Practice Exam Review

June 25: online practice exam w/plans

- Based on CAX lessons 1–21 (ORSC Chapters 1-Appendix G)

Week 10 (June 30 & July 2)

- Final exam review

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

Week 11 (July 7)

- Review Progress Exam

July 7 – Projected last day of class.

Possible extension of course of up to two weeks – TBA by mid-June 9.

**CAX Residential Plans Examiner:
Module 2**

Week 1 (April 28 & 30)

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

Week 2 (May 5 & 7)

- Lesson 3: Architectural Plan Review

Week 3 (May 12 & 14)

- Lesson 4: Structural Load Path

Week 4 (May 19 & 21)

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

Week 5 (May 26 & 28)

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

Week 6 (June 2 & 4)

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

Week 7 (June 9 & 11)

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

Week 8 (June 16 & 18)

- Lesson 9: (Continued)