SECTION HEADING

CRPT 2234: Construction Techniques

Description

Construction Techniques discusses the theory behind hand-built roof systems. Students will be taught how to use a framing square and roof terminology. Finishing of the interior and exterior portions of these systems will be taught on site.

Credits

3

Prerequisite

None

Corequisite

None

Topics to be Covered

- 1. Parts of common rafters, hip rafters, valley rafters and jack rafters
- 2. Proper cutting common, hip, valley and jack rafters.
- 3. Rafter and ceiling joist layouts

Learning Outcomes

- 1. Identify the parts of a common rafter.
- 2. Define slope and pitch.
- 3. Use a framing square and rafter tables to calculate rafter lengths.
- 4. Use a framing square to layout cut on rafters.
- 5. Make all plumb cuts and seat cuts on a common rafter.
- 6. Calculate length of common rafters for a given span and roof slope.
- 7. Accurately cut all plumb cuts and seat cuts on a common rafter.
- 8. Layout and install common rafters on a top plate.
- 9. Cut rafter tails and install lookouts.
- 10. Install fascia board to the ends of rafters.
- 11. Calculate the length of hip, valley and jack rafters using the framing square.
- 12. Erect ridge board, common rafters, hip rafters, valley rafters and jack rafters on a given roof.

Credit Details

Lecture: 1

Lab: 2

OJT: 0

MnTC Goal Area(s): None