

Youthbuild Student Training

Module Outline

Module one: Safety

1. Personal safety - PPE
2. Construction equipment identification and safe use
3. OSHA 10 certification
4. Construction site safety – include visiting construction sites

Module Two-Basic Building Construction

1. Identify terminology and steps in building construction
2. Learning basic measuring – measuring angles
3. Learn basic diagram reading
4. Student rough draft a tiny home on paper

Module Three-Foundation Basics

1. Review types of foundations used in Alaska
2. On-site inspections of different types of foundations
3. Student hands on prepping and pouring cement footings

Module Four-Metal Fabrication/welding

1. Metal fabrication and welding-students will learn to use metal fabrication equipment such as oxy/act torch-cut off saws-drill press welder
2. Students will hands on build basic fabrication/welding projects
3. Student will follow a diagram and perform hands on fabrication/welding



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Module Five-Framing

1. Students will learn use of hand and power tools commonly used in the construction industry
2. Students will build hands on projects for the community such as dog houses-decking etc to build skills and confidence
3. Students will then hands on frame the tiny home according to the homes design

Module six-Electrical

1. Students will learn basic of electricity and the electrical components used in building construction
2. Students will install all wiring-wiring junctions-electrical box switches boxes-outlet boxes for the tiny home as outlined in the building diagram

Module seven-plumbing

1. Students will learn basic of plumbing and the components used in building construction
2. Students will install all plumbing to include piping for water and sewer outlet for the tiny home as outlined in the building diagram

Module Eight-Siding/Doors/Windows

1. Students will hands on install all outer siding -trim-windows and doors as outlined in building diagram



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Module Nine-Isolation

1. Students will learn basic of different types and rating of insolation
2. Students will learn best practices from Alaska cold climate research and the uniqueness of construction in Alaska
3. Students will hands on install insulation in the tiny home as outlined in the diagram

Module Ten-Roofing

1. Students will learn of the different types of roofing and installation procedures
2. Students will hands on install all tiny home roofing and trim as outlined in the building diagram

Module eleven-Sheetrock

1. Students will learn the different types of sheetrock and how to handle and install
2. Students will hands on install the sheetrock cutting and trimming as needed
3. Students will then learn taping and texturing technics of sheetrock



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Module twelve-flooring

1. Students will learn the different types of flooring used and how to install the different types
2. Students will then hands on install flooring for the tiny home

Module Thirteen-Kitchen

1. Students will hands on install kitchen cabinets-counters-backsplash-sink-vent hood

Module Fourteen-Bathroom

1. Students will hands on install bathroom-shower stall-toilet-counter-sink-vanity-vent fan

Module Fifteen-HVAC-Final hookups

1. Throughout the build students will install the venting for kitchen stove-bathroom vent fan-heater exhaust which hookup will be completed at the end along with final plumbing and electrical all performed by the students with proper observation

Module Sixteen-HVAC-Final hookups

1. Students will learn different types of paints-primers and sealants and application techniques
2. Students will hands on install sealants-primer and paint to finish the project

