# 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



## **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



### **Module Nine-Isolation**

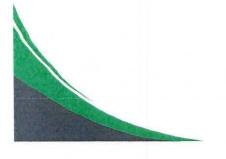
- 1. Students will learn basic of different types and rating of insolation
- 2. Students will learn best practices from Alaska cold climate research and the uniqueness of construction in Alaska
- 3. Students will hands on install insulation in the tiny home as outlined in the diagram

# **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





## 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-backsplashsink-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

