Program Outcomes and Data

Certificates will be issued by the Contractor and will include the name of the youth, name of the Contractor, number of hours completed, grade (if applicable) and date of issuing. Qualification for a certificate will be based on industry standards or approved course description.

a. **OSHA** - 10 Training and testing - Introduce students to essential construction safety standards, hazard recognition and worker rights and responsibilities through targeted instruction to establish a foundation for safe practice throughout the remainder of the course.

Outcome/Objectives

1) Successful completion of OSHA-10 certification, demonstrating readiness to apply safety standards in future focuses and prepared for the Employability focus at the end of the curriculum.

b**. Orientation and Shop Safety** - Learn about construction safety protocols, PPE, and workplace expectations through the analysis of safety data, interpretation of OSHA guidelines, and exploration of team dynamics on a construction job site.

Outcome/Objectives

1) Demonstrate safe behavior and identify shop hazards.
2) Interpret visual data and safety signage.
3) Understanding roles in collaborative job site environments.
4) Write a job site safety briefing.
5) Analyze the causes of common construction accidents and present recommendations.
6) Successful completion of OSHA-10 training and earned certification.

c**. Measurement, Math and Scale in Construction** - Develop accuracy and confidence with measurement tools, fractions, decimals, and scale drawings. Lay the mathematical foundation for interpreting blueprints and planning projects, focusing on measurement concepts, scale, and the application in blueprint reading and layout.

Outcome/Objectives

1) Use and convert measurements accurately.
2) Apply geometry and scaling in construction drawings.
3) Interpret and use the architect's scale.
4) Read technical manuals and measurement charts.
5) Research tools that improve accuracy.
6) Solve measurement-based design problems.

d. **Construction Materials Wood, Glue and Fasteners** - Explore the properties, types, and applications of various construction materials. Emphasis is placed on wood identification and understanding appropriate fastening methods to determine appropriate uses based on structural properties .

Outcome/Objectives

1) Identify wood types and applications.
2) Match adhesives and fasteners to their appropriate uses.
3) Describe materials' historical and modern use in construction.
4) Read material safety data sheets (MSDS) and wood classification texts.
5) Research the sustainability of various building materials.
6) Compare material performance through written analysis.

e. **Hand and Power Tools Identification and Use** - Build proficiency with basic hand tools and portable power tools. Demonstrate safe tool operation and recognize which tools are appropriate for specific tasks, focusing on selection, application, and troubleshooting.

Outcome/Objectives

1) Identify hand and power tools.
2) Demonstrate safe tool usage.
3) Match tools for specific job functions.
4) Read tool manuals and manufacturing guidelines.
5) Write tool operation summaries and safety logs.
6) Analyze and compare different technologies through guided research.

f. **Blueprint Reading** - and Construction Schematics- Gain introductory skills in reading and interpreting blueprints and schematics. Emphasis is placed on visualizing 3D forms and extracting technical details such as symbols, dimensions, and layout reading.

Outcome/Objectives

1) Interpret elevation views, schematics, and cut sheets.
2) Visualize structures from 2D drawings.
3) Develop material and cut lists.
4) Read and annotate sample construction plans. .
5) Research blueprint history and its role in modern CAD design.
6) Analyze visual-spatial layout problems using scale and proportion.
7) Construction Plans & Schematics Certificate.

g. **Applied Construction Projects** - Apply developing skills in tool use, measurement, and planning through small projects. These builds emphasize process, accuracy, and finishing work.

Outcome/Objectives

1) Construct basic wood structures using tools and blueprints.

2) Practice finish carpentry and project sequence.
3) Reflect on craftmanship and process
4) Document project steps in a build journal
5) Write reflections on design choices and revisions
6) Analyze problems encountered and solutions applied during the build.

h. **Tiny House Scale Model Project** - This capstone project applies foundational knowledge to a miniature build of a tiny home. Demonstrate framing knowledge, sequencing, and finishing on a 1" scale model.

Outcome/Objectives

1) Build to scale using drawings and materials.
2) Identify and install framing components.
3) Practice sequencing from the subfloor to the roofing.
4) Research tiny house trends and zoning code considerations.
5) Write a technical build report with diagrams.
6) Analyze the spatial and structural integrity of the model using evaluation criteria

i. **Employability** - Builds essential employability skills to prepare them for successful participation in the workforce and support career readiness.

Outcome/Objectives

1) Demonstrate foundational workplace behaviors including punctuality, accountability, teamwork, and respectful communication.
2) Apply professionalism and safety awareness.
3) Completion of a professional resume.
4) Prepare for a mock job interview.
5) Write official documents used in the workplace for employment purposes (cover letter, thank you letter, letter of resignation).

Knowledge and competencies will be assessed via test and the mid-point and end of the course.

Reports

1. Contractor will provide monthly tracking data, including, but not limited to:

a. Youth referred to programing by Probation.

1) Name, MLNum, and other identifiers

2) DOB

3) Demographics (gender, ethnicity, etc.)

4) Date referred

5) SB823 status (updated by Probation)

6) Did youth accept or decline program
7) Date youth accepted/declined program
8) Date of entry
9) Date of exit
10) Type of exit
    i. Satisfactory/completed
    ii. Not satisfactory/did not complete
    iii. No fault (e.g. moved)
11) Programming Dosage (in hours)

b. Outcomes of participants as applicable.
1) Tracking of youth pass/fail rates.
2) Performance/progress reports
3) Pre/post assessments.
4) Job placement success post release
5) Hours of instruction.
6) Number of Certifications

Contractor will submit/transmit tracking data to Probation on a monthly basis due the 15th of the following month.

Contractor shall conduct pre- and post- assessments of participating youth.