# **CAPACITY BUILDING TRAINING PLAYBOOK**

## **PROGRAM OVERVIEW**

- 1. SAFETY /INSURANCE / BONDING
- 2. ACCOUNTING & FINANCE
- 3. MARKETING & SALES
- 4. PROCUREMENT & CONTRACTS
- 5. BUSINESS PLANNING
- 6. ESTIMATING & PROPOSALS
- 7. PROJECT MANAGEMENT
- 8. COST CONTROLS
- 9. OWNER/ARCHITECT/ENGINEER
- 10. DEI/ESG / CONTRACT COMPLIANCE / HUMAN RIGHTS

#### SAFETY INSURANCE & BONDING

- I. Introduction
- II. Contract Requirements
- III. Why We Buy Insurance
- IV. Workers Compensation
  - a. Determining Workers Compensation Cost
  - b. Workers Compensation Codes
  - c. Workers Compensation Rates
  - d. Experience Modification Rate
  - e. Safety and Insurance Cost
- V. General Liability
  - a. Codes & Rates
- VI. Automobile Insurance
- VII. Umbrella and Excess Liability
- VIII. Property
  - IX. Environmental
  - X. Builders Risk
  - XI. Bond
    - a. Bid
    - b. Performance
    - c. Payment
    - d. Fidelity
- XII. Group Discussion

#### **SAFETY (OSHA)**

- Subpart A General
- Subpart B General Interpretations
- Subpart C General Safety and Health Provisions
  - Compliance Assistance Quick Start: Construction Industry
  - Medical and First Aid
  - Carbon Monoxide in Construction/Portable Gas-Powered Equipment (Video)
  - Sprains and Strains in Construction/Laying Stone (Video)
  - Sprains and Strains in Construction/Pulling Cables (Video)
  - Struck-By Accidents in Construction/Swinging Cranes (Video)
- Subpart D Occupational Health and Environmental Controls
  - Hazard Communication
  - Hydrogen Sulfide
  - Lead
  - Molds
- Subpart E Personal Protective and Life Saving Equipment
  - Personal Protective Equipment (PPE) Construction
  - Eye and Face Protection
  - Eye and Face eTool OSHA Requirements
  - Occupational Noise Exposure Construction
  - Respiratory Protection
  - Respiratory Protection eTool
  - Ventilation
  - Asphalt Fumes
- Subpart F Fire Protection and Prevention
  - Fire Safety
- Subpart G Signs, Signals and Barricades
  - Highway Work Zones and Signs, Signals, and Barricades
  - Struck-by Accidents in Construction/Vehicle Back-Over (Video)
- Subpart H Material Handling, Storage, Use and Disposal
  - Ergonomics: Solutions for Electrical Contractors eTool
    - Materials Handling: Heavy Lifting
- Subpart I Tools Hand and Power
  - Hand and Power Tools
  - Ergonomics: Solutions for Electrical Contractors eTool
    - Installation and Repair: Using Tools
    - Supplemental Information: Tool Index
  - Carbon Monoxide in Construction/Portable Gas-Powered Equipment (Video)
- Subpart J Welding and Cutting
  - Welding, Cutting, and Brazing
- Subpart K Electrical
  - Construction eTool Electrical Incidents
  - Control of Hazardous Energy (Lockout/Tagout)
  - Electrical Contractors Industry
  - Electrical Construction
- Subpart L Scaffolds
  - Scaffolding Construction
  - Scaffolding eTool
  - Construction eTool Improper Scaffold Construction
  - Falls in Construction/Fixed Scaffolds (Video)
- Subpart M Fall Protection

- Preventing Falls in Construction
- Fall Protection in Residential Construction
- Fall Protection Construction
- Construction eTool Falls
- Falls in Construction/Floor Openings (Video)
- Falls in Construction/Reroofing (Video)
- Falls in Construction/Sky Lights (Video)
- Subpart N Cranes, Derricks, Hoists, Elevators, and Conveyors
  - Cranes and Derricks in Construction See Subpart CC
  - Crane, Derrick, and Hoist Safety
- Subpart O Motor Vehicles, Mechanized Equipment, and Marine Operations
  - Preventing Backovers
  - Motor Vehicle Safety Construction
  - Construction eTool Vehicles
  - Struck-by Accidents in Construction/Vehicle Back-Over (Video)
- Subpart P Excavations
  - Trenching and Excavation Construction
  - Construction eTool Trenching and Excavation
  - Excavations in Construction/Soil Classification (Video)
  - Excavations in Construction/Trenching (Video)
- Subpart Q Concrete and Masonry Construction
  - Concrete and Concrete Products Manufacturing and Construction
  - Construction eTool Unguarded Protruding Steel Rebars
- Subpart R Steel Erection
  - Steel Erection
  - Steel Erection eTool
  - Revision to the Steel Erection Directive
  - Falls in Construction/Bridge Decking (Video)
  - Falls in Construction/Leading Edge Work (Video)
- Subpart S Underground Construction, Caissons, Cofferdams, and Compressed Air
- Subpart T Demolition
  - Demolition
- Subpart U Blasting and the Use of Explosives
- Subpart V Power Transmission and Distribution
  - o Electric Power Generation, Transmission, and Distribution Industry Construction
  - Electric Power Generation, Transmission, and Distribution eTool
- Subpart W Rollover Protective Structures; Overhead Protection
- Subpart X Ladders
  - Construction eTool Misuse of Portable Ladders
  - Walking/Working Surfaces
- Subpart Y Commercial Diving Operations
  - Commercial Diving
- Subpart Z Toxic and Hazardous Substances
  - Chemical Hazards and Toxic Substances
  - Asbestos Construction
  - Formaldehyde
  - Toxic Metals
  - Hexavalent Chromium
- Subpart AA Confined Spaces in Construction
  - Confined Spaces
- Subpart CC Cranes & Derricks in Construction
  - Cranes and Derricks in Construction

# **ACCOUNTING & FINANCE**

- 1. Systems
- 2. Chart of Accounts
- 3. Team
- 4. Debits & Credits
- 5. Letter of Credit
- 6. Lines of Credit
- 7. Corporate Credit
- 8. Review
- 9. Compilation
- 10. Audited
- 11. Certification

#### **CONTRACT ADMINISTRATION**

- I. Definition
- II. Basic Rights
  - a. Owner
    - i. Right to building
    - ii. Obligated to pay
  - b. Contractor
    - i. Right to Payment
    - ii. Obligated to build
- III. Obligations
  - a. Owners
    - i. Payment
    - ii. Accurate Documents
    - iii. Timely Approvals
    - iv. Cooperation
    - v. Free from interference
    - vi. Conformance of site
  - b. Contractor
    - i. Conformance to documents
    - ii. Timely performance
    - iii. Inspect work
    - iv. Change work
    - v. Stop work
    - vi. Terminate Contract
    - vii. Indeminification
    - viii. Others
- IV. Contract Types
  - a. Lumps Sum
  - b. Cost Plus
  - c. Cost Plus (GMP)

- d. Construction Management
- e. T&M
- V. Contract Terms
  - a. Payment Terms
    - i. Mobilization
    - ii. Retainage
    - iii. Guarantees
    - iv. Late Payment Interest
  - b. Warranties Laten, Paten
  - c. Change of Conditions Claims
    - i. Extra Scope
    - ii. Extension of time
    - iii. Delays
  - d. Termination
- VI. Contract Review
  - a. Legal Advice
  - b. Negotiate
  - c. Deal Breaker
- VII. Group Discussion

# **BUSINESS PLANNING**

- I. SBA Template
- II. Answer the Question???
  - a. Who
  - b. What
  - c. When
  - d. Where
  - e. How
  - f. Why
- III. Review and Update Yearly

# **MARKETING & SALES**

- 1. Public Relations
- 2. Community Relations
- 3. Client Relations
- 4. Branding
- 5. Website
- 6. Sales Management
- 7. Trade Show(s)
- 8. Certification(s)
- 9. SMPS
  - a. CPSM
  - b. SPSM

## 10. APMA

- a. BPFC
- b. BPPC
- c. BPPC
- d. CPC

## **PROCUREMENT & CONTRACTS**

- I. Purchasing Objectives
- II. Project Checklist
- III. Contractor Qualification
- IV. Invitation to Bid
- V. Items to be Acknowledged
- VI. Verbal Quotation
- VII. Quote Sheet
- VIII. Wish List Generals
  - IX. Wish List Subs
  - X. Federal Register
  - XI. Payment Protection
- XII. Michigan Construction Lien Act Forms
- XIII. Liability Insurance Asbestos Removal
- XIV. Stress Management

#### **ESTIMATING & PROPOSALS**

#### OVERVIEW

- a. Importance of a Good Estimate
  - Qualifications:
    - Must have background in and knowledge of construction and its techniques
    - 2. Must be able to read and interpret blueprints and specifications
    - 3. Should have some field experience in building and construction and courses in estimating or degree in construction
    - 4. Ability to communicate well
    - 5. Knowledge of various construction methods and materials, their characteristics, installation procedures and tolerances
  - ii. Role of estimator:
    - 1. Quantify and price out work called for on documents.
    - 2. Determined your company management costs for project.
    - 3. Prepare a project schedule
    - 4. Assemble estimate and review with management.
    - 5. Obtain vendor quotations.
    - 6. Prepare unit pricing/alternates required in bid.
  - iii. Characteristics of a good estimate:
    - 1. Accurately determines cost of work described on documents
    - 2. Qualifies assumptions made in arriving at estimated value, should documents be unclear.
    - 3. Identifies any allowances for items of work which are not quantifiable.
    - 4. Identifies drawings and specifications upon which estimate is based
    - 5. Identify gray areas on bid documents for management review.

#### System

- SAGE
- RSMEANS

On Screen Take offs

#### Certification

- ASPE-CPE
- APM CPM

# **PROJECT MANAGEMENT**

- II. 7P's
- III. Gantt Chart
- IV. Staff
- V. Elements
- VI. System(s)
- VII. Certification
  - a. CPM
    - i. APM
    - ii. PMI

# **COST CONTROL**

- 1. BID
- 2. CHANGE ORDER MANAGEMENT
- 3. ORDER QUANTITY DISCOUNTS
- 4. FINANCE CHARGES
- 5. MOBILIZATION

# **OWNER / ARCHITECT / ENGINEER**

- I. OWNER
- II. ARCHITECT
- III. ENGINEER
  - i. CONTRACT(S)
  - ii. NETWORKING
  - iii. PARTNERSHIP(S)

# DEI / ESG / CONTRACT COMPLIANCE / HUMAN RESOURCE

- I. DEI / ESG
- II. CONTRACT COMPLIANCE
- III. HUMAN RESOURCE
  - a. Davis Bacon
  - b. Prevailing Wage
  - c. Brooks Act
  - d. MBE/WBE/DBE/Section3
- IV. Certification
  - a. ACCA CCA
  - b. ACCA MCA