Module Overview

Today’s leaders face a complex and challenging workforce, and having a capable leader is essential to the success of any team. This module introduces the trainee to the principles of leadership. Trainees will learn about:

- The construction industry today
- Business organizations
- Team building
- Gender and minority issues
- Communication
- Motivation
- Problem solving
- Decision making
- Safety
- Project control

Prerequisites

There are no prerequisites for this course.

Objectives

Upon completion of this course, the trainee will be able to:

1. Discuss current issues and organizational structure in industry today.
2. Understand and incorporate leadership skills into work habits, including communications, motivation, team building, problem solving, and decision-making skills.
3. Demonstrate an awareness of safety issues, including the cost of accidents and safety regulations.
4. Identify a crew leader's typical safety responsibilities.
5. Show a basic understanding of the planning process, scheduling, and cost and resource control.

Performance Tasks

Under the supervision of the instructor, the trainee should be able to do the following:

1. Develop an estimate for a given work activity.
2. Develop and present a look-ahead schedule.

Note to Instructors

If you are training under an Accredited NCCER Sponsor, note that you may be eligible for dual credentials for successful completion of Fundamentals of Crew Leadership. When submitting the Form 200, indicate completion of the two module numbers that apply to Fundamentals of Crew Leadership – 46101-11 (from NCCER's Contren® Management Series) and the applicable craft module (if used as part of a craft training program) and transcripts will be issued to you accordingly.
Materials and Equipment

Markers/chalk
Pencils and scratch paper
Whiteboard/chalkboard
*Fundamentals of Crew Leadership* PowerPoint®
Multimedia projector and screen
Computer
Several construction job descriptions, including
one that is very vague and one that is overly
detailed
Several MSDSs appropriate to the craft
Original and as-built drawings of the same proj-
et
A redline drawing
Sufficient copies of a roofing formwork detail
drawing
Sufficient copies of the worksheet with entries

Examples of schedules:*
Bar chart
Network schedule
Short-term or look-ahead schedule
Two or three typical job schedules
Two job plans and pictures of each site
Construction drawings of a work platform with
a concrete footing, including specifications, to
be built on site:
Materials cost list including lumber, concrete,
and hardware
Labor cost list including concrete finishers, carp-
enters, and masonry workers
Photographs of the planned site
Set of construction drawings
Module Examinations*
Performance Profile Sheets*

* Because this module may be used for different industries, materials such as project schedules should
be appropriate to the craft where possible.
**Use your access code to download this exam from the IRC.

Additional Resources

This module presents thorough resources for task training. The following resource material is suggested
for further study.

National Institute of Occupational Safety and Health (NIOSH), www.cdc.gov/niosh.
NCCER Publications:
• *Your Role in the Green Environment*
• *Sustainable Construction Supervisor*
Occupational Safety and Health Administration (OSHA), www.osha.gov.
An outline for use in developing your lesson plan is presented below. This course is designed to be taught in one of two formats: two 8-hour sessions (such as all-day workshops) or eight 2-hour sessions (such as after-work training seminars). Because of this, each session below has a suggested time period of two hours. If leading 8-hour sessions, simply teach four of these 2-hour sessions both times your class meets. All instructors will need to adjust the time required for participant activities and testing based on class size and resources. Because laboratories often correspond to Performance Tasks, the proficiency of the trainees may be noted during these exercises for Performance Testing purposes.

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<td>B. Gender and Cultural Issues</td>
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Session III. Section Two – Leadership Skills, Part Two;
Section Three – Safety, Part One

A. Getting the Job Done
   1. Delegating
   2. Implementing Policies and Procedures

B. Problem Solving and Decision Making
   1. Decision Making vs. Problems Solving
   2. Types of Decisions
   3. Problem Solving
   4. Special Leadership Problems

C. Safety Overview
   1. Accident Statistics

D. Costs of Accidents
   1. Insured Costs
   2. Uninsured Costs

E. Safety Regulations
   1. Workplace Inspections
   2. Penalties for Violations

Session IV. Section Three – Safety, Part Two

A. Employer Safety Responsibilities
   1. Safety Program

B. Crew Leader Involvement in Safety
   1. Safety Training Sessions
   2. Inspections
   3. First Aid
   4. Fire Protection and Prevention
   5. Substance Abuse
   6. Job-Related Accident Investigations

C. Promoting Safety
   1. Safety Training Sessions
   2. Safety Contests
   3. Incentives and Awards
   4. Publicity

Session V. Section Four – Project Control, Part One

A. Project Control Overview
   1. Development Phase
   2. Planning Phase
   3. Construction Phase

B. Project Delivery Systems
   1. General Contracting
   2. Design-Build
   3. Construction Management

C. Cost Estimating and Budgeting
   1. The Estimating Process

D. Laboratory
   Have the trainees develop an estimate for the work activity. This laboratory corresponds to Performance Task 1.
Session VI. Section Four – Project Control, Part Two

A. Planning
   1. Why Plan?
   2. Stages of Planning

B. Laboratory
   Have the trainees develop and present a look-ahead schedule based on one of the plans. This laboratory corresponds to Performance Task 2.

C. The Planning Process
   1. Establish a Goal
   2. Identify the Work to Be Done
   3. Identify Tasks to Be Performed
   4. Communicating Responsibilities
   5. Follow-Up Activities

D. Planning Resources
   1. Safety Planning
   2. Materials Planning
   3. Site Planning
   4. Equipment Planning
   5. Tool Planning
   6. Labor Planning

Session VII. Section Four – Project Control, Part Three

A. Scheduling
   1. The Scheduling Process
   2. Bar Chart Schedule
   3. Network Schedule
   4. Short-Term Scheduling
   5. Updating a Schedule

B. Cost Control
   1. Assessing Cost Performance
   2. Field Reporting System
   3. Crew Leader’s Role in Cost Control

C. Resource Control
   1. Materials Control
   2. Equipment Control
   3. Tool Control
   4. Labor Control

D. Production and Productivity

Session VIII. Review; Testing

A. Module Review

B. Module Examination
   1. Trainees must score 70 percent or higher to receive recognition from NCCER.
   2. Record the testing results on Training Report Form 200, and submit the results to the Training Program Sponsor.

C. Performance Testing
   1. Trainee must perform each task to the satisfaction of the instructor to receive recognition from NCCER.
   2. Record the training results on Training Report Form 200, and submit the results to the Training Program Sponsor.