IN PERPETUAL MOTION

UBC Skills Training Keeps Pace as the Industry Evolves

New Training Manuals from the Carpenters International Training Fund (CITF)

New Training Manuals

• **Foreman Training** introduces participants to the qualities, skills, and responsibilities required of a capable UBC foreman. The manual includes scenarios to help foremen develop decision-making skills and activities involving group interaction.

• **Compressors** provides a solid general knowledge of all types of compressors commonly encountered on the job. The manual includes the principles of operation for each type, including disassembly and reassembly procedures.

• **Principles of Productive Metal Framing** introduces the materials, tools, and fasteners used to construct metal framing, with the procedures most likely to lead to greater productivity. The manual includes instruction on print reading, site inspection, safety, and tools and equipment, as well as layout and installation techniques proven to increase productivity.

• **Resinous Flooring** introduces the various types of resinous flooring. The manual describes the chemicals, tools, techniques, and processes commonly used to prepare, install and maintain resinous flooring. It also explains how resinous products can be used to create coved flooring and wall coatings. The last two chapters are devoted to concrete polishing.

• **Print Reading:** The new development of two volumes on print reading makes it easy for instructors to use Build-a-Book to tailor the manuals to suit their course structures.

Print Reading 1 contains two units: Unit 1 introduces the basic concepts of print reading, including lines, symbols, organization, and dimensioning. Unit 2 introduces the application of using prints. Both units include practical print reading practice using various prints.

Print Reading 2 also contains two units: Unit 3 introduces electronic print reading using Adobe® Acrobat®, PlanGrid®, Bluebeam®, and Procore®. Unit 4 discusses specifications and quantity takeoffs. Both units provide extensive practice.

• **Occupied Facilities: Controlling Contaminants During Construction** provides an overview of considerations when renovating or expanding in occupied facilities, including food, beverage, pharmaceutical production facilities, schools, and hotels. The manual discusses procedures learned in ICRA training to address air quality, barrier installation, fire control and pest control.

• **Scaffolding 1** discusses preparing for the erection of the scaffold. The manual focuses on concepts and describes how to construct a variety of scaffolds. It explains scaffold classifications, materials and components, presents prints, and focuses on scaffolding safety.

• **Scaffolding 2** describes the various types of scaffolding, including tube-and-clamp, system scaffolding, welded frame, suspended scaffolding, wood scaffolding, and manually propelled scaffolding. Putlogs are also discussed. The manual focuses on detailed procedures for the erection of each type, along with safety requirements.

• **Precision Optical Alignment** discusses the different types of precision optical alignment tools and their uses. The manual describes how to care for each instrument, the various accessories available, and procedures for setup and use of the instruments area.

• **Steam Turbines** describes the components and systems of a steam turbine. The manual presents procedures for tasks including disassembly, inspection, repair and reassembly, as well as safety.

• **Concrete (2nd Edition)** This two-volume manual has been redesigned by UBC Subject Matter Experts and provides a comprehensive look at concrete construction. It discusses safety, tools and materials, layout, print reading, and a variety of formwork. Columns, piers, pilasters, and stair forms are included. Detailed procedures throughout provide step-by-step instruction.

• **Concrete Bridge Formwork** discusses safety, tools and materials, layout, print reading, and a variety of formwork specifically used in bridge and highway construction. Types of structures include simple slab bridges as well as complex girder bridges, along with the procedures required to build these structures. The manual also includes discussion of steel reinforcement, prestressed and post-tensioned concrete.

New Workshop

• **Insulated Metal Panel Systems** focuses on insulated metal panels as part of the total building envelope. Also discussed are components of panels, preplanning, preparation and installation, including flashing and trim penetrations.