

Associated Builders and Contractors Painting Apprenticeship Curricula

Level One

Careers in the Painting Trade

Presents a brief history of the painting trade. Career opportunities from apprenticeship/helper to managerial/business related work are covered. Describes the characteristics of the successful tradesperson, including productivity, appearance, personal hygiene and dependability.

Safety

Provides a comprehensive overview of the safety and precautions for working on construction sites with a focus on the painting trade. Covers methods of ridding and care of ladders, scaffolds, swing devices, and other equipment.

Ladders, Scaffolds, Lifts and Fall Protection

Covers methods of erecting, using and maintaining ladders, scaffolds and lifts. Fall protection equipment and safety practices used when working on ladders, scaffolds and lifts are also discussed.

Identifying Surface/Substrate Materials and Conditions

Covers how to identify types of surfaces used in construction including wood, metal, masonry, concrete, plaster/drywall, and synthetic substrates. Also discusses how to identify new, aged, or previously coated surface conditions of substrates and coatings.

Protecting Adjacent Surfaces

Covers the tools, materials, and methods used for protecting adjacent surfaces and areas prior to surface preparation, paint spraying, etc.

Basic Surface Preparation

Covers the tools, materials, and methods used for cleaning, repairing, and penetrating surfaces/substrates in preparation for coating. Basic methods used for surface preparation of wood, metal, plaster/drywall, cementitious and synthetic surfaces/substrates are described.

Sealants and Repairs/Fillers

Describes the characteristics of commonly used types of sealants and fillers. Covered are guidelines for selecting sealants/fillers and the tools and methods used for applying them on commonly used construction substrates.

Introduction to Paints and Coatings

Describes the basic ingredients and film-forming processes common to all paints and coatings. Paint systems and functional categories of paints and coatings are covered with an emphasis on water-based alkyd paints and coatings.

Brushing and Rolling Paints and Coatings

Covers the types and selection of brushed, rollers, pads, mitts, and related accessories used for applying paints and coatings. Techniques used for brushing, rolling paints, and coatings on interior and exterior surfaces are covered. Also describes maintenance and storage method used with brushes and rollers.

Level Two

Failures and Remedies

Covers failures of paints/coatings on exterior and interior substrates, causes of these failures, and their remedies. Focuses special attention on the nature of the substrates, application procedures, and surface preparation.

Job Planning and Completion

Covers the process for estimating a job to submit a bid. Also covers the processes for planning and accomplishing a job from the start to finish with an emphasis placed on the importance and use of drawings, specifications, schedules, and other instructions.

Chemical Cleaning and Stripping

Describes various kinds of chemical cleaners and strippers, and their uses to clean and/or remove unwanted material from substrates.

Low-pressure Water Cleaning

Covers the design and function of commonly used types of low-pressure washing equipment, including procedures for the safe operation and maintenance of typical equipment.

Abrasive Blasting

Covers the basic design and function of abrasive blasting equipment, including general procedures for its use, related industry standards, and safety and health considerations.

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(Level Two Continued)

Drywall Finishing and Patching

Covers the materials and procedures used for drywall finishing and patching. Emphasis is on the techniques for finishing and patching drywall, including the use and care of tools, equipment and supplies and safety.

Stains

Describes the different classes and kinds of stains, including their composition, selection for use, and application considerations.

Clear Finishes

Covers the composition, uses, and application of various clear finishes, including varnishes, lacquers, shellacs and urethanes.

Wood Finishing

Covers basic wood science and technology subjects related to wood and wood products. Provides detailed procedures and techniques for wood surface preparation and the application of clear finishes to various kinds of wood.

Coatings II

Describes unique properties, safety and health considerations, surface preparation, application and testing and inspection of selected high performance coatings.

Spray Painting

Covers the design and function of commonly used types of conventional, airless, and HVLP spraying equipment, including procedures for the safe operation and maintenance of typical equipment.

Level Three

Painting Failures and Remedies II

Covers how to recognize and remedy paint/coating features caused by improper preparation and application of coatings, as well as coating discoloration.

Job Supervision, Planning and Control

Covers skills and leadership traits associated with the successful supervisor; how to supervise and motivate employees, how to estimate a job, use of contract documents, and methods for controlling materials and tools and equipment.

Coatings III

Describes unique properties, safety and health considerations, surface preparation, application, and testing and inspection of high-performance coatings used primarily to protect substrates for commercial or light industrial applications.

Color and Tinting

Covers the theory and definition of color; procedures for mixing, tinting, and matching colors; use of the color wheel; and the Munsell, Federal Standard 595B; and other color systems.

Decorative (Faux) Finishes

Describes the techniques for creating glazing, antiquing, stippling, mottling, gliding, marbling, and graining decorative finishes.

Wallcovering

Covers the wallcovering process from start to finish. Included are equipment and materials; estimating methods; surface preparation; adhesives and installation

Graphics

Covers types of graphics and their uses, methods of transferring graphic patterns to a surface, and building code regulations and other factors relating to the use of graphics.

Texturing

Covers the characteristics of various texturing materials, surface preparation procedures, and techniques for producing different patterns.

Spraying with Special Devices

Covers the design and function of texture, cold roof coating, electrostatic, and plural component spraying equipment, including procedures for the safe operation and maintenance of typical equipment.