

APPLIED INDUSTRIAL TECHNOLOGY (PAINTING) (ATPT)

ATPT-1300 Introduction to Painting, Drywall Finishing, and Glazing 2 Credits

Introduction to basic painting trades skills, including apprenticeship rights and responsibilities; painting, drywall finishing, glazing, and sign and display terminology; tools, materials, and equipment; preparation and application procedures; and safety practices.

Lecture: 2 hours

Prerequisite(s): Admission to Painters and any Applied Industrial Technology program, or departmental approval.

ATPT-1320 Safety Standards for Construction (OSHA-10) 3 Credits

Introduction to basic painting trades skills, including apprenticeship rights and responsibilities; painting, drywall finishing, glazing, and sign and display terminology; tools, materials, and equipment; preparation and application procedures; and safety practices.

Lecture: 3 hours

Prerequisite(s): Admission to Painters and any Applied Industrial Technology program, or departmental approval.

ATPT-1330 Filling Compounds and Procedures 2 Credits

Instruction in basic elements and procedures for using filling compounds, including terminology, selection of filler, elements of drying, application of filler with trowel and broad knife, and finish sanding.

Lecture: 2 hours

Prerequisite(s): Admission to Painters and any Applied Industrial Technology program, or departmental approval.

ATPT-1340 Wall Preparation and Repair 2 Credits

Instruction in wall preparation and repair, including pre-job inspection, preparation of job site, and repair of wallboard, painted surfaces, plaster, and stains.

Lecture: 2 hours

Prerequisite(s): Admission to Painters and any Applied Industrial Technology program, or departmental approval.

ATPT-1620 Wood Finishing 2 Credits

Instruction in principles and procedures in wood finishing, including characteristics of woods, specifications and finishing procedures, preparation of surfaces, and maintenance and repair of finishes.

Lecture: 2 hours

Prerequisite(s): Admission to Painters and any Applied Industrial Technology program, or departmental approval.

ATPT-1630 Color Mixing and Matching 2 Credits

Instruction in color mixing and matching, including color terminology and theory, lighting and surface effects of color, use of light boxes and viewing aids, and sequence and techniques of color mixing and matching.

Lecture: 2 hours

Prerequisite(s): Admission to Painters and any Applied Industrial Technology program, or departmental approval.

ATPT-1640 Rigging & Hoisting 2 Credits

Introduction to basic procedures of rigging and hoisting including rope materials, care, and handling; knot tying; slings; rigging hardware and hoisting techniques; hand signals; and safety procedures.

Lecture: 2 hours

Prerequisite(s): ATPT-1320 Safety Standards for Construction (OSHA-10), or departmental approval.

ATPT-1650 Blueprints I: Construction Fundamentals 2 Credits

Introduction to basic principles of blueprint reading including terminology, types of drawings, specifications and schedules, lines, symbols, scales, dimensions, and uses for painting crafts.

Lecture: 2 hours

Prerequisite(s): Admission to Painters and any Applied Industrial Technology program, or departmental approval.

ATPT-1660 Labor in American Society 2 Credits

Instruction in nature of work and role of unions in American society, including history of workers and unions from early republic to contemporary era, role of unions at workplace and in society, relationship of workers and unions to economy, law, and democracy.

Lecture: 2 hours

Prerequisite(s): Admission to Painters and any Applied Industrial Technology program, or departmental approval.

ATPT-1806 Special Topics in Painters and Lead Abatement 2 Credits

Certification course covering the health hazards of working with lead and other toxic materials. In addition, controls for worker and environmental protection and safe work practices are covered.

Lecture: 2 hours

Prerequisite(s): Departmental approval: admission to apprenticeship program.

ATPT-2310 Wall Covering & Paperhanging 3 Credits

Instruction in principles and application of wallcoverings including types of wallcoverings, surface preparation, rollage estimates, matching prints and patterns, pasting, and trimming techniques.

Lecture: 3 hours

Prerequisite(s): ATPT-1300 Introduction to Painting, Drywall Finishing and Glazing, and ATPT-1320 Safety Standards for Construction (OSHA-10); or departmental approval.

ATPT-2320 Safe Work Practices 3 Credits

Instruction in basic and advanced safe work practices including general safe work practices, power tools, shop machinery, and advanced OSHA-30 rules.

Lecture: 3 hours

Prerequisite(s): ATPT-1300 Introduction to Painting, Drywall Finishing and Glazing, and ATPT-1320 Safety Standards for Construction (OSHA-10); or departmental approval.

ATPT-2330 Spray & Industrial Painting

2 Credits

Introduction to basic principles of spray painting including spray painting terminology, safety procedures, conventional air spray systems, airless spray painting, and other spray systems.

Lecture: 2 hours

Prerequisite(s): ATPT-1300 Introduction to Painting, Drywall Finishing, and Glazing, and ATPT-1320 Safety Standards for Construction (OSHA-10); or departmental approval.

ATPT-2340 Blueprints II: Advanced Reading and Estimating

2 Credits

Advanced instruction in principles and application of blueprint reading including terminology, architectural drawings, engineering drawings, and application of specifications and schedules to painting crafts.

Lecture: 2 hours

Prerequisite(s): ATPT-1650 Blueprints I: Construction Fundamentals, or departmental approval.

ATPT-2350 Advanced Spray and Industrial Painting

2 Credits

Advanced instruction in spray and industrial painting techniques and procedures including equipment terminology, conventional air spray systems, electrostatic spray systems, HVLP turbine spray systems, and safety for spray painting.

Lecture: 2 hours

Prerequisite(s): ATPT-2330 Spray and Industrial Painting, or departmental approval.

ATPT-2360 Foreman Training

2 Credits

Instruction in foreman training including functions and responsibilities, communication skills, personnel duties, safety and substance abuse responsibilities, and legal requirements.

Lecture: 2 hours

Prerequisite(s): ATPT-1300 Introduction to Painting, Drywall Finishing and Glazing, and ATPT-1320 Safety Standards for Construction (OSHA-10); or departmental approval.

ATPT-2370 Abrasives Blasting Techniques

2 Credits

Instruction in abrasive blasting operations and procedures including types of machines and their components, materials and their characteristics, selection of machine and materials to fit job, water blasting operations, and surface preparation with abrasive blasting.

Lecture: 2 hours

Prerequisite(s): ATPT-2320 Safe Work Practices or concurrent enrollment; or departmental approval.

ATPT-2380 Special Coating and Decorative Finishes

2 Credits

Instruction in basic principles and techniques of special coatings and decorative finishes including terminology and glazing, antiquing, wood graining, marbleizing, stipple finishing, texturing, gilding, and stenciling techniques and procedures.

Lecture: 2 hours

Prerequisite(s): ATPT-1630 Color Mixing and Matching, or departmental approval.

ATPT-2818 Special Topics in Coatings Inspector II

5 Credits

A certification course for the industrial painting industry covering all aspects of metal coatings including causes of substrate deterioration, coatings tests and equipment and immersion linings. Included are preparations requirements for applications covering high pressure washing and acid edging and safety regulations for application and product transport.

Lecture: 5 hours

Prerequisite(s): Departmental approval: admission to Painter's apprenticeship program.

ATPT-2819 Special Topics in Coatings Inspector

4 Credits

Certification course for coatings inspectors covering roles, application standards, thickness measurements and required coatings application conditions. Coatings defects per industry standards and application safety during operations will also be addressed.

Lecture: 4 hours

Prerequisite(s): Departmental approval: admission to apprenticeship program.