

ATPT-2330: SPRAY & INDUSTRIAL PAINTING

Cuyahoga Community College

Viewing: ATPT-2330 : Spray & Industrial Painting

Board of Trustees:

2001-04-26

Academic Term:

Spring 2019

Subject Code

ATPT - Appld Indus Tech - Painting

Course Number:

2330

Title:

Spray & Industrial Painting

Catalog Description:

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

Credit Hour(s):

2

Lecture Hour(s):

2

Requisites

Prerequisite and Corequisite

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

Outcomes

Course Outcome(s):

N/A

Objective(s):

1. Identify the tools, material, equipment, uses, and preparation procedures for spray painting.
2. Differentiate between various spray systems.
3. Demonstrate safe work practices for spray painting and proper use of personal protective equipment.
4. Operate, maintain, and clean a conventional air spray system.
5. Operate, maintain, and clean an airless spray gun.

Methods of Evaluation:

1. Quizzes
2. Exams
3. Classroom participation
4. Demonstration of project assignments

Course Content Outline:

1. Introduction to spray painting
 - a. Definition and uses of spray painting
 - b. Paints
 - c. Preparation
2. Tools and equipment

- a. Air and material supply and control equipment
- b. Spray gun
- 3. Conventional air spray system
 - a. Operation of conventional air spray system
 - b. Spray gun techniques
 - c. Problems and solutions
 - d. Maintenance and cleaning equipment
- 4. Safety procedures
 - a. Personal protective gear
 - b. Safety practices and procedures
 - c. Fire and explosion hazards
- 5. Airless spray painting
 - a. Airless system
 - b. Airless spray gun operation
 - c. Setup, maintenance and cleaning of equipment
 - d. Special safety practices for airless spray painting
- 6. Other spray systems
 - a. Electrostatic spray systems
 - b. Plural component spray
 - c. Other specialized equipment

Resources

Painting and Decorating Contractors of America. *Painting and Decorating Craftsman's Manual and Textbook*. Fairfax: Painting and Decorating Contractors of America, 1995.

Charron, Andy. *Spray Finishing*. Newtown: Taunton Press, 1996.

International Brotherhood of Painters Allied Trades Joint apprenticeship Training Fund. *Conventional Air Spray Systems*. Washington, DC: Internat'l Brotherhood of Painters Allied Trades Joint Apprenticeship Training Fund, 1998.

International Brotherhood of Painters and Allied Trades Joint Apprenticeship and Training Fund. *Introduction to Spray Painting*. Washington:DC: Internat'l Brotherhood of Painters Allied Trades Joint Apprenticeship Training Fund, 1998.

Top of page

Key: 661