**Coating Application Specialist Diploma**

**CIP Code** 47-2141.00

A coating application specialist paints walls, equipment, buildings, bridges, and other structural surfaces, using brushes, rollers, and spray guns. They may remove old paint to prepare surface prior to painting. They may mix colors or oils to obtain desired color or consistency. Specific objectives for this program include:

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| * **Getting Information** — observing, receiving, and otherwise obtaining information from all relevant sources. |
| * **Performing General Physical Activities** — performing physical activities that require considerable use of your arms and legs and moving your whole body, such as climbing, lifting, balancing, walking, stooping, and handling of materials. |
| * **Handling and Moving Objects** — Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things. |
| * **Inspecting Equipment, Structures, or Material** — Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects. |
| * **Organizing, Planning, and Prioritizing Work** — Developing specific goals and plans to prioritize, organize, and accomplish your work. |
| * **Communicating with Supervisors, Peers, or Subordinates** — Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person. |
| * **Establishing and Maintaining Interpersonal Relationships** — Developing constructive and cooperative working relationships with others and maintaining them over time. |
| * **Estimating the Quantifiable Characteristics of Products, Events, or Information** — Estimating sizes, distances, and quantities; or determining time, costs, resources, or materials needed to perform a work activity. |
| * **Evaluating Information to Determine Compliance with Standards** — Using relevant information and individual judgment to determine whether events or processes comply with laws, regulations, or standards. |

**The Coating Application Specialist Program normally takes 4 years to complete with a total 640 hours of class time and 6000 internships as follows:**

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| **Course Number** | **Course Name** | **Course Description** | **Class**  **Hours** | **Intern Hours** | **MCTC[[1]](#footnote-1)**  **Credits** |
| ORT001 | Orientation | Overview of the program requirements, intro to the union and benefits. Also provides information on substance abuse, drug testing and help for addiction. | 40 | 65 | 0 |
| SFT120 | Safety in the Construction Trades | This course provides entry level construction workers with a general awareness on how to recognize and prevent hazards on a construction site. The training covers a variety of construction safety and health hazards that a worker may encounter at a construction site.  Students earn both OSHA10 and basic First Aid/CPR certifications. | 40 | 200 | 3 |
| ENVS114 | Green Building Technologies | This course will enable students to develop practices that save energy; reduce the production of waste; use environmentally friendly products and materials; recycle materials; adopt sustainable strategies; work to protect employee health and safety; and adopt other practices, technologies and high-performance work processes that reduce carbon emissions while retaining good jobs at family-sustaining wages. | 40 | 135 | 3 |
| MAT198 | Math for Construction | This course begins with the basic facts of arithmetic and continues through some of the early stages of algebra. Reviewing and practicing these basic mathematical concepts are intended to help all tradesmen use math to his/her advantage and to avoid making costly mistakes on the job. Participants in this course will learn to competently add, subtract, multiply and divide decimal fractions, have a basic understanding of percentages. | 40 | 50 | 3 |
| ARCH100 | Blueprints and Architectural Drawings | This course will build upon the students’ basic mathematics, trigonometry, measurement skills and knowledge by accurately using math when reading blueprints. | 40 | 50 | 3 |
| SFT112 | Elevated Platforms | The main objective of this course is to prevent workplace injuries and fatalities related to falls. This course covers the potential hazards related to working on raised or unstable platforms. The types of tools and equipment for elevating oneself and one’s work materials are identified. Selection, inspection, setup, safe techniques and proper maintenance of equipment are discussed. | 40 | 200 | 3 |
| OD113 | Leadership | This course prepares students to take an active role in the construction industry by learning how to use effective communication and planning to make better use of human and physical resources in the workplace to effectively form and lead highly motivated teams and to foster a safe and productive work environment. | 40 | 200 | 0 |
| SFT200 | Lead Safety | This course presents the NJ/EPA model curriculum for lead-based paint (LBP) abatement workers. Using classroom activities, demonstrations and significant hands-on training. Students will learn how to safely abate lead-based paint in both interior and exterior environments. | 40 | 200 | 3 |
| PAT130 | Intro to Industrial Painting | This class will orient individuals to the industrial painting profession. Topics to be covered include coating materials, tools, equipment and terminology. The differences between industrial painting and commercial painting will be identified and described. | 60 | 300 | 3 |
| PAT131 | Surface Preparation | This course covers the tools, materials and methods used for cleaning and preparing surfaces using solvents, hand tools and power tools. Content in this course is based on the methods and procedures specified by SSPC and NACE. | 40 | 900 | 3 |
| PAT132 | Materials for Industrial Painting | This course covers the tools, materials and methods used for cleaning and preparing surfaces using solvents, hand tools and power tools. Content in this course is based on the methods and procedures specified by SSPC and NACE. | 40 | 800 | 3 |
| PAT133 | Techniques of Spraying | This course covers the fundamentals of spray painting with a detailed discussion of the most common spray-painting systems: electrostatic, turbine, airless, conventional, air, HVLP, and turbine. Student will also learn how to safely use spray equipment and the potential hazards involved. | 70 | 1550 | 6 |
| PAT230 | Testing and Quality Control | This course covers quality control and quality assurance. Students learn how to recognize failures of paint coatings, causes of failures and their remedies. Students also learn to conduct a quality control inspection and the standards that apply to the various tasks performed during the inspection process. | 60 | 850 | 3 |
| SFT214 | Lead Abatement | This course presents the NJ/EPA model curriculum for lead-based paint (LBP) abatement workers. Using classroom activities, demonstrations and significant hands-on training. Students will learn how to safely abate lead-based paint in both interior and exterior environments. | 50 | 500 | 3 |
| **TOTALS** |  |  | **640** | **6000** | **39** |

1. Students also receive 12 credits for the Internship. [↑](#footnote-ref-1)