

<p>Craft: Painting</p> <p>Task Module Number: 07301</p> <p>Task Module Title: Painting Failures and Remedies II</p>	 
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TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

- Rating Levels:**
1. Passed: performed task.
 2. Failed: did not perform task.

Accreditation: When testing for the NCCER Accreditation Program, be sure to record Performance Profile testing results on the Craft Training Report Form 200 and submit the results to the Training Program Sponsor.

TASK	RATING
1. Recognize the kinds of failures that are caused by improper application of a coating. Based on the symptoms:	
<ul style="list-style-type: none"> • State what caused the problem. 	
<ul style="list-style-type: none"> • State what should have been done to prevent the problem. 	

continued

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Craft: Painting

Task Module Number: 07301

Task Module Title: Painting Failures and Remedies II



TASK	RATING
2. Demonstrate the ability to correct coating failures caused by improper application of the coating.	
3. Recognize the conditions that can cause discoloration of a finish. Based on the symptoms:	
<ul style="list-style-type: none"> • State what caused the problem. 	
<ul style="list-style-type: none"> • State what should have been done to prevent the problem. 	
4. Demonstrate the ability to correct various types of discoloration problems.	

Craft: Painting

Task Module Number: 07302

Task Module Title: Job Supervision, Planning, and Control



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

- Rating Levels:**
1. Passed: performed task.
 2. Failed: did not perform task.

Accreditation: When testing for the NCCER Accreditation Program, be sure to record Performance Profile testing results on the Craft Training Report Form 200 and submit the results to the Training Program Sponsor.

TASK	RATING
1. Demonstrate or be aware of the following factors associated with the role of a supervisor/leader:	
<ul style="list-style-type: none"> • Desirable personal qualities and traits 	
<ul style="list-style-type: none"> • Methods for achieving effective verbal and written communication 	

continued

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Craft: Painting

Task Module Number: 07302

Task Module Title: Job Supervision, Planning, and Control



TASK	RATING
<ul style="list-style-type: none"> • Specific functions performed to get the job or task done 	
<ul style="list-style-type: none"> • Methods for promoting good working relationships with and among employers, customers, crew members, and craftspersons in other trades 	
<ul style="list-style-type: none"> • Methods for resolving conflicts with customers and/or among craftspersons 	
<p>2. Determine the dimensions for selected rooms and surfaces by scaling architectural/construction drawings.</p>	
<p>3. Estimate the cost for a selected painting job.</p>	
<ul style="list-style-type: none"> • Interpret contractual documents to determine the job requirements. 	
<ul style="list-style-type: none"> • Complete a takeoff using construction drawings/schedules and record the data on standardized estimating forms. 	
<ul style="list-style-type: none"> • Use labor production rates, material usage rates, labor costs, and material costs to calculate the total labor hours required and the total costs for labor and materials for a selected painting job and record the data on standardized estimating forms. 	
<p>4. Be familiar with PDCA standards that help establish industry guidelines for acceptance, inspection, and quality control.</p>	

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NCCER STANDARDIZED CURRICULA

Painting

Level Three

Module 07303
Coatings III

EXAMINATION PACKET

This packet contains the reproducible Module Examination, Answer Key, and Performance Profile Sheet(s).

**STORE IN A
SECURE AREA!**

*Provided with Annotated
Instructor's Guide modules only.*

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NCCER

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Upper Saddle River, New Jersey Columbus, Ohio

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Name: _____ Date: _____

Social Security Number: _____

- _____ 1. The main purpose or use of high-performance coatings is to _____ a substrate.
- decorate
 - protect
 - prime
 - topcoat
- _____ 2. When compared to other coatings, high-performance coatings generally have _____.
- unique properties
 - 100% solids
 - additional safety and application requirements
 - both a and c
- _____ 3. Thermoplastic coatings _____.
- form a film by solvent evaporation
 - form a film by chemical crosslinking
 - form a film by oxidation
 - both a and b
- _____ 4. Thermoset coatings are coatings that cure by the process of _____.
- oxidation
 - chemical crosslinking
 - evaporation
 - both a and b
- _____ 5. High-performance coatings made with alkyd modified formulations _____.
- cure by chemical crosslinking
 - cure by evaporation
 - cure by oxidation
 - are thermoplastic coatings
- _____ 6. Water emulsion high-performance coatings _____.
- cure by chemical crosslinking
 - cure by evaporation
 - cure by oxidation
 - are thermoset coatings
- _____ 7. Asphaltic bituminous coatings are generally used for _____.
- above grade coating applications
 - below grade coating applications
 - water immersion service
 - either above or below grade coating applications
- _____ 8. Which coating type below does not chemically crosslink by copolymerization?
- Epoxy
 - Modified alkyd
 - Urethane
 - Phenolic

Coatings III

- _____ 9. The type of urethane coating most widely used to achieve corrosion protection and for atmospheric service is _____.
a. vinyl
b. polyether
c. acrylic
d. epoxy
- _____ 10. What functional type of coating would you use to apply over a prepared surface that has tightly adherent mill scale, rust, and some old paint?
a. Encapsulant
b. Elastomeric
c. Intumescent
d. Surface-tolerant
- _____ 11. What type of coating is typically used on masonry, concrete floors, and high-traffic areas?
a. Coal tar epoxy
b. Acrylic emulsion
c. 100% solid epoxy
d. High-solids polyurethane
- _____ 12. To find the recommended uses for a specific coating product, you should refer to the coating manufacturer's _____.
a. application sheet or bulletin
b. product information sheet
c. material safety data sheet (MSDS)
d. sales literature
- _____ 13. To find the detailed information concerning the surface preparation needed for use with a coating product, you should refer to the coating manufacturer's _____.
a. application sheet or bulletin
b. product information sheet
c. material safety data sheet (MSDS)
d. sales literature

Coatings III

- _____ 14. A digital hygrometer can be used to test _____.
a. the moisture content of a substrate
b. relative humidity
c. dew point
d. both b and c
- _____ 15. When using a wet-film thickness gauge to measure the thickness of a coating, the _____.
a. first tooth with the coating on it when the gauge is removed indicates the thickness
b. last tooth with the coating on it when the gauge is removed indicates the thickness
c. the measured wet-film thickness can be multiplied by the coating's percentage of solids by volume to calculate the estimated dry-film thickness
d. both b and c

NOTE ON PERFORMANCE PROFILE TESTING

Performance Profiles are included in this Instructor's Guide in a format that can be easily photocopied for each trainee. The Profiles measure trainee competency in the tasks taught in this module.

Please note the number of tasks to be tested while teaching this module. Each trainee should be tested on the tasks listed in the Performance Profile. Before the performance testing, the instructor should brief the trainees on:

- test objectives and criteria,
- safety precautions, and
- procedures for each task to be tested.



The instructor administering the performance testing should also do the following:

- ensure that all of the needed equipment is available and operating properly;
- set up the testing stations;
- organize and administer the test in a way that allows for optimal performance;
- complete the Performance Profile Sheet for each trainee by assigning a score for each listed task;
- monitor adherence to all safety regulations and precautions;
- provide adequate supervision to prevent injuries; and
- take immediate and effective action to remedy any emergency.

ACCREDITATION TESTING

If this Performance Profile Testing is done in the National Center for Construction Education and Research Standardized Craft Training Program, the following conditions must be met:

1. The Craft Instructor must hold valid NCCER instructor certification.
2. The training must be delivered through a Training Program Sponsor recognized by the NCCER.
3. For every module, the specific performance testing must be completed to the satisfaction of the instructor.
4. The results of the testing must be recorded on the Craft Training Report Form. This form must be provided to the local Training Program Sponsor to be forwarded to the NCCER National Craft Training Registry.

Craft: Painting Task Module Number: 07303 Task Module Title: Coatings III	 
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TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

- Rating Levels:**
1. Passed: performed task.
 2. Failed: did not perform task.

Accreditation: When testing for the NCCER Accreditation Program, be sure to record Performance Profile testing results on the Craft Training Report Form 200 and submit the results to the Training Program Sponsor.

TASK	RATING
1. Interpret the product container label and/or product data sheet information to determine:	
<ul style="list-style-type: none"> • The primary ingredients of the coating formulation 	
<ul style="list-style-type: none"> • If the coating is a thermoset or thermoplastic coating 	
<ul style="list-style-type: none"> • The properties and characteristics of the coating 	
<ul style="list-style-type: none"> • The intended function performed by the coating 	

continued

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Craft: Painting

Task Module Number: 07303

Task Module Title: Coatings III



TASK	RATING
2. Use the coating manufacturer’s product data sheets to select the proper high-performance coating required to meet a given set of job requirements.	
3. Prepare a surface and apply a selected coating in accordance with the coating manufacturer’s product data sheet and application bulletin.	
4. Use the MSDS for a selected coating to identify:	
<ul style="list-style-type: none"> • The hazards (if any) associated with the coating 	
<ul style="list-style-type: none"> • The personal protective equipment that must be worn or otherwise used when working with the coating 	
<ul style="list-style-type: none"> • Any other precautions or regulatory information relevant to using the coating 	
5. Use a psychrometer, hygrometer, digital thermometer, and moisture meter to measure atmospheric and substrate conditions.	
6. Use wet- and dry-film thickness gauges to measure the thickness of coatings.	

Answer Key to Module Examination

Answer	Section	Objective
1. b	1.0.0	1
2. d	1.0.0	1
3. a	2.0.0	2
4. d	2.0.0	2
5. c	2.1.0	2
6. b	2.2.0, 2.2.1	2
7. a	2.2.2	3
8. b	2.1.0, 2.3.0	2
9. c	2.3.2	2
10. d	3.5.0	3
11. c	4.0.0	3
12. b	4.0.0	4
13. a	5.0.0	5
14. d	7.1.0	6
15. d	7.4.0	7

Craft: Painting

Task Module Number: 07304

Task Module Title: Color and Tinting



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

- Rating Levels:**
1. Passed: performed task.
 2. Failed: did not perform task.

Accreditation: When testing for the NCCER Accreditation Program, be sure to record Performance Profile testing results on the Craft Training Report Form 200 and submit the results to the Training Program Sponsor.

TASK	RATING
1. Recognize and identify the importance of light to color.	
2. Identify the three primary colors.	
3. Identify the three secondary colors and six intermediate colors, and understand how they are formed.	

continued

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Craft: Painting	
Task Module Number: 07304	
Task Module Title: Color and Tinting	

TASK	RATING
4. Demonstrate the use of the color wheel by selecting and applying complementary, contrasting, and harmonious colors.	
5. Identify and define the three dimensions of color.	
6. Describe and illustrate three ways color influences the mood of a person and his or her environment.	
7. Identify the difference between interior and exterior color schemes.	
8. Identify the ways color is used for safety.	
9. Demonstrate the procedure for creating a custom tint.	
10. Identify the three most commonly used color systems and state their purposes.	

Craft: Painting

Task Module Number: 07305

Task Module Title: Decorative (Faux) Finishes



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

- Rating Levels:**
1. Passed: performed task.
 2. Failed: did not perform task.

Accreditation: When testing for the NCCER Accreditation Program, be sure to record Performance Profile testing results on the Craft Training Report Form 200 and submit the results to the Training Program Sponsor.

TASK	RATING
1. Prepare oil-based and water-based glazes.	
2. Apply glaze coats to properly prepared surfaces using the following methods:	
<ul style="list-style-type: none"> • Sponging 	

continued

Craft: Painting

Task Module Number: 07305

Task Module Title: Decorative (Faux) Finishes



TASK	RATING
<ul style="list-style-type: none"> • Rag rolling 	
<ul style="list-style-type: none"> • Cheeseclothing 	
<p>3. Apply a marbled finish to a properly prepared surface.</p>	
<p>4. Apply antiqued finishes to a properly prepared surface using the following methods:</p>	
<ul style="list-style-type: none"> • Rubbing with steel wool 	
<ul style="list-style-type: none"> • Spattering 	
<p>5. Apply stippling and mottling finishes to properly prepared surfaces.</p>	
<p>6. Apply a grained finish to a properly prepared surface.</p>	
<p>7. Describe the methods used to produce a gilded finish.</p>	

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<p>Craft: Painting</p> <p>Task Module Number: 07306</p> <p>Task Module Title: Wallcovering</p>	 
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TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

- Rating Levels:**
1. Passed: performed task.
 2. Failed: did not perform task.

Accreditation: When testing for the NCCER Accreditation Program, be sure to record Performance Profile testing results on the Craft Training Report Form 200 and submit the results to the Training Program Sponsor.

TASK	RATING
1. Estimate the amount of wallcovering needed using various estimating techniques.	
2. Select the proper adhesive for a particular wallcovering.	
3. Properly mix a powdered adhesive.	
4. Prepare a surface for wallcovering.	

continued

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Craft: Painting

Task Module Number: 07306

Task Module Title: Wallcovering



TASK	RATING
5. Install selected wallcoverings and borders, demonstrating the ability to work around windows, doors, light fixtures, and other obstacles.	
6. Demonstrate the ability to install wallcoverings in difficult places such as stairs, slant walls, dormers, and archways.	
7. Demonstrate the ability to identify the causes of some common wallcovering failures, to correct them, and to state what should have been done to prevent them.	

Craft: Painting

Task Module Number: 07307

Task Module Title: Graphics



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

- Rating Levels:**
1. Passed: performed task.
 2. Failed: did not perform task.

Accreditation: When testing for the NCCER Accreditation Program, be sure to record Performance Profile testing results on the Craft Training Report Form 200 and submit the results to the Training Program Sponsor.

TASK	RATING
1. Describe and/or demonstrate how to transfer graphic designs to a surface from:	
<ul style="list-style-type: none"> • Architectural plans 	
<ul style="list-style-type: none"> • Grid square plans 	

continued

Craft: Painting



Task Module Number: 07307

Task Module Title: Graphics



TASK	RATING
<ul style="list-style-type: none"> • Templates 	
<ul style="list-style-type: none"> • Pounce patterns 	
<ul style="list-style-type: none"> • Projection 	
<p>2. Describe and/or demonstrate how to make and use a stencil to produce a graphic.</p>	
<p>3. Describe and/or demonstrate the different methods for producing lines and stripes.</p>	

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<p>Craft: Painting</p> <p>Task Module Number: 07308</p> <p>Task Module Title: Texturing</p>	 
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TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

- Rating Levels:**
1. Passed: performed task.
 2. Failed: did not perform task.

Accreditation: When testing for the NCCER Accreditation Program, be sure to record Performance Profile testing results on the Craft Training Report Form 200 and submit the results to the Training Program Sponsor.

TASK	RATING
1. Recognize and describe the uses of selected common texture materials and aggregates.	
2. Recognize and describe the uses for various selected texture equipment.	
3. Describe safety and general application guidelines that must be observed when applying and finishing texture materials.	
4. Recognize, describe, and demonstrate selected typical texture patterns, how the material is applied, and how the finish is achieved.	

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Craft: Painting
Task Module Number: 07309
Task Module Title: Spraying with Special Devices



TRAINEE NAME: _____

TRAINEE SOCIAL SECURITY NUMBER: _____

CLASS: _____

TRAINING PROGRAM SPONSOR: _____

INSTRUCTOR: _____

- Rating Levels:**
1. Passed: performed task.
 2. Failed: did not perform task.

Accreditation: When testing for the NCCER Accreditation Program, be sure to record Performance Profile testing results on the Craft Training Report Form 200 and submit the results to the Training Program Sponsor.

TASK	RATING
1. Recognize and describe the various types of texture sprayers, their advantages and disadvantages, and selected types of texture materials.	
2. Demonstrate the proper safety procedures and spray techniques for a selected texture sprayer.	
3. Recognize and describe a typical cold roof coating sprayer and the various common cold roof coatings that can be sprayed using the sprayer.	

continued

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Craft: Painting

Task Module Number: 07309

Task Module Title: Spraying with Special Devices



TASK	RATING
4. Demonstrate the proper safety procedures and spray techniques for a selected cold roof coating sprayer.	
5. Describe the principles of operation of a selected electrostatic spray system along with the characteristics and safety considerations of various types of coating materials used with electrostatic sprayers.	
6. Demonstrate the proper safety procedures and spray techniques for a selected electrostatic sprayer.	
7. Recognize and describe typical plural component materials, their working characteristics, and the various types of proportioning equipment used in their application.	
8. Demonstrate proper safety precautions and application procedures in the handling, mixing, and dispensing of selected plural component materials using selected proportioning equipment and a selected sprayer.	