STAR4D Aerospace Techician Certification

A properly trained workforce improves productivity and quality while reducing material consumption and environmental impacts.

STAR4D Aerospace painter training focuses on the aspects spray technicians need to know in order to be more efficient.

STAR4D certified painter training is a 2-day course broken down into three areas: classroom, hands-on application in the spray booth, and 3D virtual reality simulation using the VirtualPaint.

The course focuses on comprehensive knowledge of the entire painting process and improving spray techniques.

The Aerospace Technician Certification focuses on the use of coatings used in the aerospace industry.

- Safety
- Masking and Surface Preparation
- Aerospace Coating Systems
- Spray Application Equipment
- Spray Equipment Setup
- Spray Technique
- Cleaning and Maintenance
- Coating Defects and Failures

CERTIFICATION REQUIREMENTS

There are no prerequisites for STAR4D certification. The program has been designed to cater to spray technicians of all levels - from a beginner to a technician with 20+ years' experience.

In order to receive certification, technicians must receive at least 80% on a written evaluation, 75% on VirtualPaint evaluation, and properly apply topcoat and related primers to the recommended mil specifications.

REGISTRATION

To schedule a class at your location, please contact Chris Lampe, STAR4D Program Manager at chris.lampe@uni.edu or (319)273-8905.

STAR4D Aerospace Technician Certification meets the requirements of Air Force TO 1-1-8 Application and Removal of Organic Coatings, Aerospace and Non-Aerospace Equipment.

Agenda

Day 1 - 0800 - 1630

Introduction
- Course Agenda and Expectations
- Experience Level Questionnaire
- Written Pretest - 50 Questions

VirtualPaint Performance Level Capture
- Curved Panel
- Performance Levels

Classroom Instruction Presentations
- Spray Equipment (Graviy, Pressure Feed)
- Spray Equipment Setup
- Spray Technique and Application Efficiency
- Coating Defects
- Spray Equipment Cleaning

VirtualPaint Training Lab
- Spray Gun Lab
- Spray Technique Lab
- Film Build Lab

Classroom Instruction Presentations
- Surface Preparation
- Fundamentals of Liquid Coatings
- Mil Specification Aerospace Primers and Top Coat

Day 2 - 0800 - 1630

In-Booth Training and Observation
- Application of Mil-Spec Epoxy Primer (MIL-PRF-23377 Class N)
- Spray Equipment Setup - Air and Fluid Pressure Settings
- Proper Film Thickness - WFT and DFT

In-Booth Training and Observation
- Application of Mil-Spec Aerospace Top Coats (MIL-PRF-85285)
- Spray Equipment Setup - Air and Fluid Pressure Settings
- Proper Film Thickness - WFT and DFT

Finish Quality Inspection Lab
- Evaluation and Discussion of Sprayed Parts
- Measure Film Thickness
- Film Build Assessment

VirtualPaint Final Performance Evaluation
- Practice and Performance Review
- Complex Parts Evaluation
- Individual Skill Evaluation

Final Assessment
- Written Post Test - 50 Questions

Course Survey and Student Feedback