



Training  
and  
Certification  
Guide  
**2018**



# STAR4D Painter Training

Through STAR4D certification spray technicians are able to practice strategies and techniques to improve finish quality and increase efficiency. Each course is customized by taking into consideration each students experience and equipment used at their own facility.

## BENEFITS OF PAINTER TRAINING

- Increase transfer efficiency
- Reduce rework
- Reduce coating defects
- Reduce hazardous waste generation
- Maximize coating efficiency
- Improves readiness and extends life of military assets



## STAR4D AT A GLANCE

BEGAN IN 2003

**PROVIDED TRAINING FOR  
ALL AIR FORCE, ARMY,  
COAST GUARD, MARINE  
CORPS, NAVY**

**TRAINED THOUSANDS OF  
MILITARY PAINTERS AND  
DOD CONTRACTORS**

**HAS ESTABLISHED  
SATELLITE SITES AT BASES  
THROUGHOUT THE UNITED  
STATES AND IN JAPAN**

**MANAGED BY UNITED  
STATES MARINE CORPS  
CORROSION PREVENTION  
AND CONTROL**

## STAR4D MISSION

**TO PROVIDE PAINTER TRAINING TO MILITARY PERSONNEL TO FACILITATE EFFECTIVE  
SPRAYING OF SPECIFIC COMPONENTS, EQUIPMENT, VEHICLES AND SURFACES IN EFFORTS  
TO MAXIMIZE COATING EFFICIENCY AND MINIMIZE ENVIRONMENTAL POLLUTION.**

# Types of Certification

## COATINGS TECHNICIAN CERTIFICATION

Focuses on the use of chemical agent resistance coatings, commonly referred to as CARC.

### TOPICS COVERED

- Masking and Demasking
- Surface Preparation
- Coatings Systems
- CARC System
- Spray Application Equipment
- Spray Equipment Setup
- Spray Technique
- Cleaning and Maintenance
- CARC Defects and Failures



## AEROSPACE TECHNICIAN CERTIFICATION

Focuses on the use of coatings used in the aerospace industry.

### TOPICS COVERED

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



# STAR4D Training Center

STAR4D's training headquarters is located in Cedar Falls, IA. The 16,000 square foot facility is equipped with multiple spray booths and ovens, classroom space and a virtual reality lab housing the VirtualPaint. The facility is large enough for a vehicle as large as a HUMVEE to move through the blasting, coating and curing process.

## EQUIPMENT WITHIN THE FACILITY INCLUDES:

- Batch powder coating booth
- Cross-draft liquid spray booth
- Walk-in powder coating booth
- Combination convection-IR oven
- Two-inch, variable speed monorail system
- Three-inch variable speed conveyor
- Drive through media blasting booth
- Drive through downdraft spray booth
- Drive through IR oven
- Training equipment for two and/or three component coatings materials
- Chemical paint stripping system
- Spray wand pretreatment equipment
- Five stage re-circulating spray washer
- Paint kitchen/mix room
- Six-inch manual conveyor
- Wide assortment of liquid and powder coating application equipment: High Volume Low Pressure (HVLP), Low Volume Low Pressure (LVLP), Electrostatic, Compliant, Conventional, Airless and Air-Assisted Airless Spray guns, as well as the associated equipment needed to operate these spray guns



# Certification

## 3-DAY COURSE

Certification lasts for one year from the final training date.

### AGENDA

All STAR4D courses integrate a mix of classroom, hands-on and virtual reality training.

#### DAY 1

##### *Classroom*

- Coating Defects
- Equipment selection
- Equipment setup
- Spray technique

##### *Hands-On Practice*

- Transfer efficiency pre-test
- Hands-on coating application



#### DAY 2

##### *Classroom*

- Equipment cleaning

##### *Virtual Reality*

- VirtualPaint practice

##### *Hands-On Practice*

- Mil thickness readings
- Equipment setup
- Spray technique

#### DAY 3

##### *Classroom*

- Written post-test

##### *Hands-On Practice*

- Transfer efficiency post-test
- Mil thickness readings
- Virtual Reality Virtual Paint final evaluation

## PREREQUISITES



THERE ARE NO  
PREREQUISITES FOR  
CERTIFICATION.

PAINTERS CAN  
HAVE 40 YEARS'  
EXPERIENCE OR  
NEVER SPRAYED  
AT ALL.

Who Should  
Attend ?

SPRAY TECHNICIANS  
SUPERVISORS  
ENGINEERS



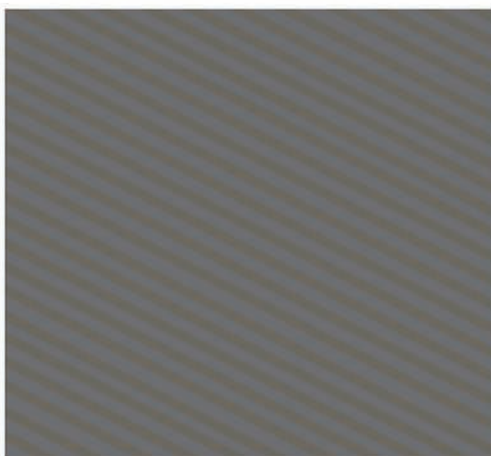
# Recertification

## 1-DAY COURSE

Basic concepts and techniques will be reinforced, and any new processes will be introduced.

### PREREQUISITES

✓ **SUCCESSFUL  
COMPLETION OF THE  
STAR4D COATINGS  
TECHNICIAN  
CERTIFICATION  
OR  
STAR4D AEROSPACE  
TECHNICIAN  
CERTIFICATION**



## REGISTRATION

To register for an upcoming certification or recertification class, contact STAR4D or visit <https://iwrc.uni.edu/star4d>. Upon choosing a class, your facility will be invoiced. Students are not registered until payment has been made and you have received confirmation regarding attendance.

## REFUND POLICY

If it is four weeks or less before the training, no refund will be issued. A replacement may be sent with no penalty, but please notify STAR4D of the name change at your earliest convenience.

## CONTACT INFORMATION

STAR4D

6114 Chancellor Drive

Cedar Falls, IA 50613

Rick Klein: 319-273-5351 | Chris Lampe: 319-273-5354

STAR4D is part of the Iowa Waste Reduction Center at the University of Northern Iowa. The program is managed by United States Marine Corps Corrosion Prevention and Control.

## NEARBY AIRPORTS

### **Waterloo Regional Airport (ALO)**

ALO is approximately 15 minutes from the STAR4D training facility. It serves American Airlines.

### **Eastern Iowa Airport (CID)**

CID is approximately one hour from the STAR4D training facility. It serves Allegiant, American Eagle, Delta, Frontier and United.

## RECOMMENDED HOTELS

### **Black Hawk Hotel**

115 Main Street, Cedar Falls, IA 50613, 319-277-1161, <5 miles to STAR4D training facility

### **AmericInn**

5818 Nordic Drive, Cedar Falls, IA 50613, 319-277-6166, <1 mile to STAR4D training facility

