

# PDA Advanced Course Outline

Introductions will stay in same format as they are in the original PDA Applicator Class

## Chapter 1

Chapter One will cover Job Safety. **“In-Depth”**

- Respirator use and care
- Fall Protection
- Scaffold Safety
- working with chemicals
- Working in confined spaces
- Working with high pressure equipment

## Chapter 2

Chapter Two will cover Equipment used in applying thick film coatings. **“Over-View”**

- Types of proportioners
- Maintenance of equipment
- Transfer pumps
- Heated Hoses
- Fluid temperature sensors
- Low pressure equipment

## Chapter 3

Chapter Three will cover spray guns used for different types of work. **“Over-View”**

- Difference between Air Purge and Mechanical Purge guns
- Air Purge gun operation
- Mechanical Purge gun operation
- Maintenance of guns
- Proper gun selection

## Chapter 4

Chapter Four will cover Chemical Technology. **“Over-View”**

- Difference between Polyurea, Hybrid Polyurea, and Polyurethanes
- Chemical diagram of each
- Different uses for each
- How all three differ but used in the same ways
- Benefits of each

## Chapter 5

Chapter Five will cover surface prep for substrates for proper coating application. **“Over-View”**

- Why we do surface prep
- Types of surface preparation
- Surface prep for different substrates
- How to examine proper completed surface prep
- Tools used for proper surface preparation
- Visible contaminates
- Non-Visible contaminates

## Chapter 6

Chapter Six will cover equipment troubleshooting. **“In-Depth”**

- What can go wrong, Can go wrong
- Trouble shooting of plural component equipment
- How proportioning pumps work
- Importance of equal pressures
- Iso-Rich trouble shooting
- Resin-Rich trouble shooting
- Heated hose problems that may occur
- Gun Issues
- Material Issues
- Temperatures

## **Chapter 7**

Chapter Seven will cover Job Specifications. **“In-Depth”**

- What is a Job Specification
- Why do we need a Job Specification
- Who writes a Job Specification
- What does a Job Specification cover and why
- How to write a proper job specification
- Pre-Job meetings and the job spec
- Changing items found in a job spec that may pose problems on a job

## **Chapter 8**

Chapter Eight will cover Project Estimating. **“Over-View”**

- Preparing a job bid
- How not to bid a job
- You’re not always bidding apples to apples

## **Chapter 9**

Chapter Nine will cover Inspection Q/A. **“Over-View”**

- Importance of Quality Assurance on any project
- Basic Q/A examples
- Who performs Q/A work
- Who’s responsible for Q/A

## **Chapter 10**

Chapter Ten will cover basic installation defects. **“In-Depth”**

- What is a Defect
- Types of defects
- What causes defects
- repair of defects

## Chapter 11

Chapter Eleven will cover Inspection Q/C. **“Over-View”**

- Importance of Quality Control on any project
- Basic Q/C examples
- Who performs Q/C work
- Who’s responsible for Q/C