

# TrainthePainter



## Knowledge Requirements

Protective Coatings Applicator  
Abrasive Blast Cleaning Operator  
Spray Painting Operator

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## KNOWLEDGE REQUIREMENTS

The Knowledge Requirements the protective coatings applicator training profile.

The Knowledge Requirements detail the training units for the following disciplines of personnel:

- The Protective Coating Applicator
- The Abrasive Blast Cleaning Operative
- The Spray Painting Operative

The Knowledge Requirements detail the training units for each discipline and the specific unit objectives.

The Knowledge Requirement will detail, if the unit has:

- Theoretical training units only
- Practical training units only
- Both theoretical and practical training units

Some of the training units are optional to the student as they are considered:

- Specialist
- Applicable to specific duties which may or may not be conducted by the student

## Complimentary Units

The following training units have no written tests or assessments and are used:

a). to compliment and supply supportive information for the Core units

**and / or**

b). to be used by contractors and organisations who conduct specialist training applications

A		B	
15.1	BSEN ISO 8501-1	<b>Modules</b>	
15.2	BSEN ISO 8501-2	7	Metallic coating
15.3	BSEN ISO 8501-3	8	Instrumented coatings
15.4	BSEN ISO 8501-4	9	Concrete
15.5	SSPC VIS 1	10	Environment
15.6	SSPC VIS 3	11	Coating failure
15.7	SSPC VIS 4 – NACE VIS 7	12	Coating failure
15.8	SSPC VIS 5 – NACE VIS 9	13	Offshore and Marine
		14	Speciality units

### Third Party Practical Training and Assessments

The following practical assessments do not form part of the training program and must be conducted by Third Party Accredited Organisations.

- 1.4 First Aid
- 2.1.1 Erecting / Dismantling Platforms
- 2.2.1 Access Platforms

The aforementioned units are not mandatory for the trainthepainter and specific to the individual organisation.

## PROTECTIVE COATINGS APPLICATOR TRAINING PROFILE

No.	KNOWLEDGE REQUIREMENT	THEORY	PRACTICAL
<b>1.0 HEALTH &amp; SAFETY</b>			
I.1	Company Induction (Specific to Individual Companies) <b>Objective:</b> To understand the aims and objectives of the individual company, Health and Safety regulations and legislation.	✓	
I.2	Accident Prevention <b>Objective:</b> To understand that accidents can be prevented if pre-work precautions are taken.	✓	
I.3	House Keeping <b>Objective:</b> To understand the importance of house keeping in the coating industry and general health, safety and environmental implications relating to poor house keeping.	✓	
I.4	First Aid <b>Objective:</b> To understand that there will be an arrangement for first aid on all sites and factory facilities.	✓	THIRD PARTY TRAINING
I.5	Electricity/Air Supply <b>Objective:</b> To understand the health and safety issues with the use of electricity and air supply.	✓	
I.6	Permit to Work <b>Objective:</b> To understand that within certain tasks undertaken by the Protective Coatings Applicator, a permit to work system maybe a requirement.	✓	
I.7	COSHH & Risk Assessment (Job Safety Analysis) <b>Objective:</b> To understand the requirements of conducting both COSHH and Risk Assessments and the obligations of the employer and employees.	✓	
I.8	Health and Safety Data Sheets (Material Safety Data Sheets) <b>Objective:</b> To understand the requirements for health and safety data sheets, usually referred to as material safety data, from the coating manufacturers.	✓	
I.9	LEL, TLV, OEL, MEL and Ventilation <b>Objective:</b> To understand the importance of the above values given in Material Safety Data Sheets (MSDS) and the need to ensure that the works are established and maintained so there is no possibility of these values being exceeded.	✓	
I.10	PPE (Personal Protective Equipment) inc RPE (Respiratory Protective Equipment) <b>Objective:</b> To understand the requirements for PPE. Also understand that PPE requirements may change depending upon the type of task performed.	✓	✓
I.11	Basic Access Requirements (inc Fall Protection) <b>Objective:</b> To understand the health and safety implications for basic access requirements to the Industrial Coatings Applicator.	✓	
I.12	Safety in Surface Preparation <b>Objective:</b> To understand the safety requirements when conducting methods of surface preparation.	✓	OPTIONAL
I.13	Safety in Paint Application <b>Objective:</b> To understand the safety requirements when conducting paint application.	✓	OPTIONAL
I.14	Method Statements (Work Instructions) <b>Objective:</b> To understand why method statements are developed and who should develop them.	✓	

No.	KNOWLEDGE REQUIREMENT	THEORY	PRACTICAL
1.15	Confined Space <b>Objective:</b> To gain an understanding of the health and safety implications while working in confined spaces	✓	
1.16	Health and Wellbeing <b>Objective:</b> To understand the requirements for the health and wellbeing of the applicator	✓	
<b>2.0 ACCESS, PLANT AND EQUIPMENT</b>			
2.1	Erecting & Dismantling Working Platforms		
2.1.1	Erecting / Dismantling Platforms <b>Objective:</b> To understand and demonstrate the use of lightweight platforms up to two metres in height.	✓	THIRD PARTY TRAINING
2.1.2	Safe use of Ladders <b>Objective:</b> To understand the safe use of ladders and to understand where and when ladders can be used, inspected, tested etc.	✓	
2.2	Types of Mobile Access		
2.2.1	Access Platforms <b>Objective:</b> To understand the use of access platforms (Mobile Elevating Work Platforms MEWP).		THIRD PARTY TRAINING
<b>3.0 SURFACE PREPARATION</b>			
3.1	Surface Preparation Requirements		
3.1.1	Types and Methods of Surface Preparation <b>Objective:</b> To have a basic understanding of the different types and methods of surface preparation.	✓	
3.1.2	Type of Substrates and Materials <b>Objective:</b> To have a basic understanding of the numerous types of substrates and materials that the Protective Coatings Applicator may encounter.	✓	
3.1.3	Previously Painted/Coated Substrates <b>Objective:</b> To understand the required criteria when reviewing or conducting surface preparation to previously painted/coated substrates in readiness for new coatings.	✓	
3.2	Surface Preparation Standards		
3.2.1	Mechanical/Hand Preparation Standards <b>Objective:</b> To understand that mechanical and hand preparation standards that exist in the Protective painting industry and that these standards will be specified on contracts.	✓	✓
3.2.2	Pre-surface Conditions <b>Objective:</b> To understand the importance of pre-surface condition requirements for steel surfaces and implications on coating performance.	✓	✓
3.2.3	Pre-surface Preparation/Cleaning <b>Objective:</b> To understand why and how to pre-prepare steel surfaces, both bare and previously painted prior to re-coating.	✓	✓
3.3	Hand and Power Tool Equipment		
3.3.1	Chipping Hammer <b>Objective:</b> To understand how and where to use a chipping hammer as a method of pre-surface treatment.	✓	✓

No.	KNOWLEDGE REQUIREMENT	THEORY	PRACTICAL
3.3.2	Hand Wire Brush <b>Objective:</b> To understand how and where to use a wire brush as a method of surface preparation.	✓	✓
3.3.3	Scraper <b>Objective:</b> To understand how a scraper is used as a method of preparation.	✓	✓
3.3.4	Needle Gun <b>Objective:</b> To understand why and where a needle gun is used as a method of surface preparation on steel structures.	✓	✓
3.3.5	Power Wire Brush and Grinding <b>Objective:</b> To understand how and where to use a wire brush and a grinder as a method of surface preparation.	✓	✓
3.4	Pre-cleaning Methods		
3.4.1	Steam Cleaning <b>Objective:</b> To understand where and how steam cleaning can be used as a method of surface preparation or a pre-cleaning process.	✓	OPTIONAL
3.4.2	Water Washing <b>Objective:</b> To understand the requirement for water washing as a method of pre-cleaning.	✓	✓
3.4.3	Solvent Cleaning <b>Objective:</b> To understand how and when to use solvent as a method of surface cleaning.	✓	✓
3.5	Auxiliary Equipment		
3.5.1	Compressors <b>Objective:</b> To understand the requirement for compressed air for methods of surface preparation and coating activities. Also understand the set-up, operational use and basic safety requirements.	✓	
3.5.2	Heaters <b>Objective:</b> To understand the types and methods to be used in the protective coatings application industry.	✓	
3.5.3	Lighting <b>Objective:</b> To understand why and where lighting is used by the Protective Coatings Applicator for surface preparation and coating activities.	✓	
3.5.4	Grit Removal and Hoppers <b>Objective:</b> To understand how site abrasive blast cleaning creates dust, spent abrasive and debris during the surface preparation process and to gain an understanding of collection, removal and disposal of such items.	✓	
3.5.5	De-humidification <b>Objective:</b> To understand the use of de-humidification as a method of controlling environmental conditions during surface preparation and coating activities.	✓	
3.6	Water Jetting		
3.6.1	Introduction to High Pressure Water Jetting <b>Objective:</b> The objective of this unit is to gain and insight into the principals of high pressure water jetting and its use as a method of surface preparation	✓	

No.	KNOWLEDGE REQUIREMENT	THEORY	PRACTICAL
3.6.2	<p>BSEN ISO 8501-4</p> <p><b>Objective:</b> The objective of this training unit is to give an overview of BSEN ISO 8501-4 which is titled 'Preparation of Steel Substrates before application of paints and related products – visual assessment of surface cleanliness'</p> <p>Part 4: Initial surface conditions, preparation grades in connection with high pressure water jetting</p>	✓	
3.6.3	<p>SSPC VIS 4 – NACE VIS 7</p> <p><b>Objective:</b> The objective of this unit is to give a full and comprehensive review of SSPC –VIS 4 / NACE 7 titled 'Guide and reference photographs for steel surfaces by water jetting'</p>	✓	
<b>4.0 PAINT TYPES</b>			
4.1	<p>Coating Types and Systems</p> <p><b>Objective:</b> To understand the basic constituents and properties of coatings used for corrosion control, and gain an insight into coating systems.</p>	✓	
4.2	<p>Product Data Sheets – Review</p> <p><b>Objective:</b> To understand how to read and understand the manufacturer's product data sheets and the importance of using the products within the guidelines.</p>	✓	
4.3	<p>Single and Two Part Materials</p> <p><b>Objective:</b> To understand the difference between single and two part coating materials by the Protective Coatings Applicator.</p>	✓	
4.4	<p>Paint Mixing</p> <p><b>Objective:</b> To understand the importance of paint mixing of both one and two part paints and material handling.</p>	✓	✓
4.5	<p>Pot-life / Induction</p> <p><b>Objective:</b> To understand the importance of pot-life and induction periods when using two part paints and coatings.</p>	✓	✓
4.6	<p>Storage</p> <p><b>Objective:</b> To understand that coatings must be stored in the correct manner prior to use.</p>	✓	
4.7	<p>Batch Numbers</p> <p><b>Objective:</b> To understand the importance of batch numbers and the need to record these accurately, the configuration generally used and the meaning of the units.</p>	✓	
4.8	<p>Volume Solids</p> <p><b>Objective:</b> To understand that paints and coatings are liquid materials made up of volatile and non-volatile components.</p>	✓	
4.9	<p>Coverage (Theoretical/Practical)</p> <p><b>Objective:</b> To understand how paint coverage is calculated and to gain basic knowledge of theoretical and practical spreading rate of paints and coatings.</p>	✓	
4.10	<p>Compatibility</p> <p><b>Objective:</b> To understand the difference between compatibility and incompatibility in relation to industrial coatings. To appreciate that not all generic coatings can be applied in conjunction with each other, and provide long term performance.</p>	✓	

No.	KNOWLEDGE REQUIREMENT	THEORY	PRACTICAL
<b>5.0 PAINT APPLICATION</b>			
5.1	Environmental Conditions		
5.1.1	Relative Humidity and Dew Point <b>Objective:</b> To understand and how to measure relative humidity and dew point, and their effect on coating application and cure.	✓	✓
5.1.2	Steel Temperature <b>Objective:</b> To understand how to measure and assess steel temperatures and the effects on paint application.	✓	✓
5.2	Types of Paint Application Equipment		
5.2.1	Brush Application <b>Objective:</b> To understand how, where and when a brush can be used for the application of paint coatings in the Protective coatings industry. To understand the advantages and disadvantages of brush application.	✓	✓
5.2.2	Roller Application <b>Objective:</b> To understand how, where and when a roller can be used for the application of paint coatings in the Protective coatings industry. To understand the advantages and disadvantages of roller application.	✓	✓
5.2.3	Airless Spray (Introduction) <b>Objective:</b> To give the Protective Coatings Applicator an appreciation of airless spray painting and its use for the application of industrial coatings.	✓	
5.2.4	Air Assisted Spray and HVLP (Introduction) <b>Objective:</b> The objective of this training segment is to give the Protective Coatings Applicator an appreciation of air assisted (conventional and HVLP) spray painting and its use within the industrial coatings.	✓	
5.3	Paint Film Thickness		
5.3.1	Wet Film Thickness <b>Objective:</b> To measure the wet film thickness of an applied coating. With a knowledge of the target dry film thickness and the volume solids of the paint, the applicator can calculate the required wet film thickness at which the paint must be applied.	✓	✓
5.3.2	Dry Film Thickness <b>Objective:</b> To measure the dry film thickness (DFT) of applied coating(s) by non-destructive test methods.	✓	✓
5.3.3	Drying / Recoating (inc. Cure) <b>Objective:</b> To understand the drying and recoating process of industrial coatings.	✓	
5.3.4	Stripe Coating <b>Objective:</b> To understand why and when stripe coats should be applied in a protective coating system.	✓	✓
5.4	Paint Application Procedures		
5.4.1	Surface Cleaning <b>Objective:</b> To understand the cleaning requirements prior to paint application.	✓	✓
5.4.2	Coating Damage / Repair <b>Objective:</b> To understand remedial paint application procedures for damaged coated surfaces.	✓	

No.	KNOWLEDGE REQUIREMENT	THEORY	PRACTICAL
5.4.3	Materials and Equipment Handling <b>Objective:</b> To understand the basic handling procedure during paint operations.	✓	
5.5	Paint Locations/Types		
5.5.1	Shop Painting <b>Objective:</b> To give the Protective Coatings Applicator an understanding of the shop painting process and the duties that may be expected by the Protective Coatings Applicator.	✓	
5.5.2	Site Painting <b>Objective:</b> To understand the implications of carrying out site painting activities.	✓	
5.5.3	General Maintenance (Plant and Equipment) <b>Objective:</b> To understand the requirement for general maintenance of plant and equipment in the coatings industry.	✓	
5.5.4	Equipment Cleaning <b>Objective:</b> To understand the requirement for cleaning and plant following coating application.	✓	
5.5.5	Maintenance Painting Operations <b>Objective:</b> The objective of this training unit will review the elements of maintenance painting	✓	
<b>6.0 QUALITY CONTROL</b>			
6.1	Environmental Conditions Inspection Equipment <b>Objective:</b> To appreciate the specialist equipment that is used in the coatings industry and which may be relevant to the Protective Coatings Applicator.	✓	
6.2	Inspection Standards		
6.2.1	BS, EN, ISO Standards and Codes of Practice <b>Objective:</b> To appreciate that within the coatings industry, a number of standards and codes of practice exist and are specified for work that is conducted by the Protective Coatings Applicator.	✓	
6.2.2	Visual Standards (Introduction) <b>Objective:</b> To understand that within the protective coatings industry, a number of visual standards, exist for preparation and coating activities. The Protective Coatings Applicator must be familiar with such standards.	✓	
6.3	Standards, Specifications and Code of Practice <b>Objective:</b> To understand the basic principles of a paint and coatings specification.	✓	
6.4	Paint Manufacture <b>Objective:</b> The objective of this unit is to gain an insight into paint formulation and manufacture	✓	
6.5	Inspection and Test Equipment		
6.5.1	Inspections and Test Equipment <b>Objective:</b> The objective of this training unit is to gain and insight into the inspection and testing equipment used in the protective coatings industry	✓	
6.5.2	Documentation <b>Objective:</b> The objective of this training until will review the documentation that may be required on surface preparation and coatings contracts	✓	



No.	KNOWLEDGE REQUIREMENT	THEORY	PRACTICAL
<b>7.0 METALLIC COATINGS</b>			
7.1	Thermal Metal Spray for Corrosion Protection <b>Objective:</b> The objective of this training unit is to give a comprehensive review of thermal spray metal coatings used for corrosion control	✓	
7.2	Galvanizing <b>Objective:</b> The objective of this unit is to give an overview to galvanizing and its use as a corrosion protection product	✓	
<b>8.0 INTUMESCENT COATINGS</b>			
8.1	Thin film Intumescent coatings <b>Objective:</b> The objective of this training unit is to give a thorough review into the use of fire protection to structural steel with the use of thin film intumescent paint	✓	
8.2	Thick Film Intumescent Coatings <b>Objective:</b> The objective of this training unit is to give a thorough review into the use of thick film intumescent paint	✓	
<b>9.0 CONCRETE</b>			
9.1	Concrete Basics <b>Objective:</b> The objective of this training unit is to give an understanding to the basic principles of concrete	✓	
9.2	Concrete Moisture <b>Objective:</b> The objective of this training unit is to understand that moisture plays an important role in the production, mixing, curing and overcoating of concrete	✓	
9.3	Concrete Preparation <b>Objective:</b> The objective of this training unit is to understand the various methods of surface preparation on concrete	✓	
9.4	Concrete Coatings <b>Objective:</b> The objective of this training unit is to understand why coatings are applied to concrete	✓	
<b>10.0 ENVIRONMENTAL</b>			
10.1	Volatile Organic Compounds <b>Objective:</b> The objective of this training unit is to review volatile organic compounds and the impact on the coatings industry	✓	
10.2	Hazardous Waste <b>Objective:</b> The objective of this training unit is to review hazardous waste and disposal in the coatings industry	✓	
<b>11.0 COATING FAILURE</b>			
11.1	Coatings Failures <b>Objective:</b> The objective of this training unit is to give an overview of the types of coating failures that may be encountered after application and failures which may be encountered over a period of time	✓	

No.	KNOWLEDGE REQUIREMENT	THEORY	PRACTICAL
<b>12.0 MANAGEMENT AND SUPERVISION</b>			
12.1	Management and Supervision <b>Objective:</b> The objective of this training unit is to review the requirement for suitable supervision and management on surface preparation and coating contracts	✓	
<b>13.0 OFFSHORE</b>			
13.1	Offshore Constructions <b>Objective:</b> The objective of this training unit is to review offshore construction and the methods used for corrosion control with the use of protective coatings	✓	
13.2	Offshore Maintenance <b>Objective:</b> The objective of this training unit is to give a review of offshore maintenance with the use of protective coatings	✓	
<b>14.0 SPECIALITY UNITS</b>			
14.1	Specialist Coatings <b>Objective:</b> The objective of this training unit is to give an overview of some of the specialist coatings used for corrosion control	✓	
14.2	History of Pipe Coatings <b>Objective:</b> The objective of this training unit is to give a basic understanding on the use and progression of external pipe coatings	✓	
14.3	Fusion Bonded Epoxy coatings for Pipeline Protection <b>Objective:</b> The objective of this training unit is to give a basic understanding of the protection of pipe, fittings and field joints using fusion bonded epoxy coating (FBG)	✓	
14.4	Miscellaneous Pipeline Coatings and Field Joints <b>Objective:</b> The objective of this training unit is to review the various types of coatings used to protect pipelines from corrosion	✓	
14.5	Rubber Linings <b>Objective:</b> The objective of this training unit is to review the use of rubber and its use in the coatings and corrosion industry	✓	
14.6	Special Coatings and Linings <b>Objective:</b> The objective of this training unit is to review some of the specialist coatings used for the protection of tanks and linings	✓	
14.7	Powder Coatings <b>Objective:</b> The objective of this training unit is to review the use of powder coatings including pre preparation, methods of application and types of equipment	✓	
<b>15.0 VISUAL STANDARDS</b>			
15.1	BSEN ISO 8501-1 <b>Objective:</b> The objective of this training unit is to give an overview of the BSEN ISO 8501-1 which is titled 'Preparation of Steel Substrates before application of paints and related products – visual assessment of surface cleanliness'.  Part 1: Rust grades and preparation grades of uncoated substrate after overall removal of previous coatings.	✓	

No.	KNOWLEDGE REQUIREMENT	THEORY	PRACTICAL
15.2	BSEN ISO 8501-2 <b>Objective:</b> The objective of this training unit is to give an overview of BSEN ISO 8501-2 which is titled 'Preparation of Steel Substrates before application of paints and related products – visual assessment of surface cleanliness' Part 2: Preparation grades of previously coated steel substrates after localised removal of previous coatings	✓	
15.3	BS EN ISO 8501-3 <b>Objective:</b> The objective of this training unit is to give an overview of the BSEN ISO 8501-3 which is titled 'Preparation of Steel Substrates before application of paints and related products – visual assessment of surface cleanliness'  Part 3: Preparation grades of welds, cut, edges and other areas with surface imperfections.	✓	
15.4	BSEN ISO 8501-4 <b>Objective:</b> The objective of this training unit is to give an overview of BSEN ISO 8501-4 which is titled 'Preparation of Steel Substrates before application of paints and related products – visual assessment of surface cleanliness'  Part 4: Initial surface conditions, preparation grades and flash rust grades in connection with high pressure water jetting	✓	
15.5	SSPC –VIS 1 <b>Objective:</b> The objective of this training unit is to give a full and comprehensive review of SSPC –VIS 1 Guide titled 'Dry Abrasive Blast Cleaning'	✓	
15.6	SSPC –VIS 3 <b>Objective:</b> The objective of this training unit is to give a full and comprehensive review of SSPC –VIS 3 Guide titled 'Guide and Reference Photographs for Steel Surfaces Prepared by Power and Hand Tool Cleaning'	✓	
15.7	SSPC –VIS 4 – NACE VIS 7 <b>Objective:</b> The objective of this training unit is to give a full and comprehensive review of SSPC VIS 4 – NACE VIS 7, titled 'Guide and Reference Photographs for Steel Surfaces Prepared by Water Jetting'	✓	
15.8	SSPC –VIS 5 – NACE VIS 9 <b>Objective:</b> The objective of this training unit is to give a full and comprehensive review of the SSPC VIS 5 – NACE VIS 9 Visual Guide titled 'Guide and Reference Photographs for Steel Prepared by Wet Abrasive Blast Cleaning'	✓	

## ABRASIVE BLAST CLEANING TRAINING PROFILE

No.	KNOWLEDGE REQUIREMENT	THEORY	PRACTICAL
<b>I.0 ABRASIVE BLAST CLEANING – INTRODUCTION</b>			
1.1	General Overview <b>Objective:</b> To gain an understanding in the many applications of abrasive blast cleaning and the various uses of preparation. Also appreciate the role of the abrasive blast cleaning operative for industrial applications.	✓	
1.2	Basic Corrosion <b>Objective:</b> To gain a basic understanding of the corrosion process relating to steel structures. Also to gain an appreciation of how corrosion can be controlled by abrasive blast cleaning and coating application.	✓	

No.	KNOWLEDGE REQUIREMENT	THEORY	PRACTICAL
1.3	Millscale <b>Objective:</b> To gain a basic understanding of how millscale is formed, what it is and the importance of its removal during abrasive blast cleaning.	✓	
1.4	Substrate Materials <b>Objective:</b> To gain an understanding of the various substrates that may require abrasive blast cleaning in some form or another.	✓	
1.5	Pre-surface Conditions <b>Objective:</b> To understand the importance of pre-surface condition requirements on steel surfaces and implications on coating performance.	✓	
1.6	Mechanical Blast Machines <b>Objective:</b> To gain an understanding of mechanical surface preparation using centrifugal blast cleaning equipment.	✓	
1.7	Types of Air Blast Equipment <b>Objective:</b> To gain a thorough understanding of the blast cleaning equipment available.	✓	
1.8	Wet Abrasive Blast Cleaning <b>Objective:</b> To understand how and when wet abrasive blast cleaning is conducted and the equipment types utilised.	✓	
<b>2.0 HEALTH AND SAFETY</b>			
2.1	Introduction <b>Objective:</b> To gain an understanding of the health and safety issues relating to abrasive blast cleaning.	✓	
2.2	Method Statements / Risk Assessments <b>Objective:</b> To understand why method statements are developed and who should develop them, also understand the requirements for conducting risk assessments.	✓	
2.3	PPE <b>Objective:</b> To understand the requirement for personal safety equipment when using abrasive blast cleaning equipment.	✓	✓
2.4	Breathing Air / Helmets <b>Objective:</b> To understand the requirements for breathing air during abrasive blast cleaning and the need for an abrasive blast cleaning helmet.	✓	✓
<b>3.0 BLAST MEDIA</b>			
3.1	Types of Abrasives <b>Objective:</b> To gain a thorough understanding of the various type of abrasives used for surface preparation.	✓	✓
3.2	Surface Profile <b>Objective:</b> To gain an understanding of surface profile and how its effect coating systems.	✓	
<b>4.0 ABRASIVE BLAST CLEANING STANDARDS AND QUALITY CONTROL</b>			
4.1	Visual (Photographical) Standards <b>Objective:</b> To gain a thorough understanding of recognised standards used in the coatings industry.	✓	✓
4.2	Surface Cleanliness <b>Objective:</b> To understand the importance of surface cleanliness after abrasive cleaning, prior to coating.	✓	

No.	KNOWLEDGE REQUIREMENT	THEORY	PRACTICAL
4.3	Environmental Conditions <b>Objective:</b> To understand the requirements to use, control and monitor environmental plant and equipment during and after abrasive blast cleaning.	✓	✓
<b>5.0 ABRASIVE BLAST CLEANER – OPERATIONAL PROCEDURES</b>			
5.1	Compressed Air and Air Requirements <b>Objective:</b> To understand the requirements of compressed air during portable abrasive blast cleaning.	✓	✓
5.2	Blast Hoses and Associated Equipment <b>Objective:</b> To understand the use and requirements for the abrasive blast hose and associated equipment.	✓	✓
5.3	Types of Nozzles <b>Objective:</b> To understand the importance of nozzles used during abrasive blast cleaning. Also understand the various types of nozzles available to the abrasive blast operative.	✓	✓
5.4	Ventilation and Lighting <b>Objective:</b> To understand the requirements for adequate ventilation and lighting during abrasive blast cleaning.	✓	
5.5	Communications <b>Objective:</b> To understand the methods of communication between the abrasive blast operative and abrasive blast operative assistant.	✓	✓
<b>6.0 PROCESS CONTROL</b>			
6.1	Abrasive Equipment Set-up and Testing <b>Objective:</b> To understand how to check, test abrasive blast cleaning equipment (including associated equipment) prior to use.	✓	✓
6.2	Abrasive Blast Cleaning – Process <b>Objective:</b> To understand how the abrasive blast cleaning operative should safely and efficiently abrasive blast clean surfaces.	✓	✓
6.3	Abrasive Blast Cleaning – Standards <b>Objective:</b> To understand that various abrasive blast cleaning standards exist in the coatings industry. Also to understand that abrasive blast cleaning standards differ depending upon the initial condition of the steel.	✓	✓

## SPRAY PAINTING TRAINING PROFILE

No.	KNOWLEDGE REQUIREMENT	THEORY	PRACTICAL
<b>1.0 PAINT SPRAYER - INTRODUCTION</b>			
1.1	Paint Application (Introduction) <b>Objective:</b> To gain an understanding of how liquid paints are applied.	✓	
1.2	Basic Corrosion <b>Objective:</b> To gain a basic understanding of the corrosion process relating to steel structures. Also to gain an appreciation of how corrosion can be controlled by correct surface preparation and coating application.	✓	
1.3	Surface Preparation <b>Objective:</b> To gain a thorough understanding of the importance of surface preparation prior to application of protective coatings. Also, gain an insight into the various types of surfaces, which may be pre-prepared, prepared and coated.	✓	

No.	KNOWLEDGE REQUIREMENT	THEORY	PRACTICAL
1.4	Coating Types and Systems <b>Objective:</b> To understand the basic constituents and properties of coatings used for corrosion control and gain an insight into coating systems.	✓	
<b>2.0 HEALTH AND SAFETY</b>			
2.1	Material Safety Data Sheets <b>Objective:</b> To understand the requirements for health and safety data sheets, usually referred to as material safety data sheet, from the coating manufacturers.	✓	
2.2	C.O.S.H.H. and Risk Assessments <b>Objective:</b> To understand the requirements of conducting both COSHH and Risk Assessments and the obligations of the employer and employees.	✓	
2.3	Method Statements <b>Objective:</b> To understand why method statements are developed and who should develop them.	✓	
<b>3.0 PAINT MATERIALS</b>			
3.1	Product Data Sheets <b>Objective:</b> To understand how to read and understand the manufacturer's product data sheet and the importance of using the product within their guidelines.	✓	
3.2	Paint Storage and Paint Mixing <b>Objective:</b> To understand that coatings must be stored in the correct manner prior to use. To also understand the importance of paint mixing of both one and two part paints and material handling.	✓	
3.3	Quality Control <b>Objective:</b> To understand the quality control process and procedures to be adopted for spray painting, specifically environmental conditions, wet and dry film thickness.	✓	
<b>4.0 AIRLESS SPRAY EQUIPMENT</b>			
4.1.1 and 4.1.2	Airless Spray Painting Equipment <b>Objective:</b> To gain a thorough understanding of the principals of airless spray painting equipment including parts, maintenance, usage and health and safety.	✓	✓
4.2	Airless Spray Equipment Set-up, Testing and General Use <b>Objective:</b> To gain a thorough understanding of the airless spray unit requirements for pre-preparation, inspection, set-up, testing and shutdown procedures.	✓	✓
<b>5.0 CONVENTIONAL AIR SPRAY EQUIPMENT</b>			
5.1	Conventional Air Spray Equipment <b>Objective:</b> To gain an understanding of the principles of conventional air spray paint equipment.	✓	✓
<b>6.0 PLURAL SPRAY EQUIPMENT</b>			
6.1	Plural Spray Equipment <b>Objective:</b> To give an overview of plural component spray equipment which is finding increased use in the Protective coatings industry.	✓	