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| **1.NDT** | | | |
| **Course Name** | **Course Description** | **Course Content** | **Available Courses** |
| * 1. Ultrasonic Testing | | | |
| * 1. 1 Ultrasonic Testing Level 1 | This course is a combination of the Ultrasonic Testing Introduction course with appropriate Ultrasonic Testing theory and practical training. This course is PCN recognised and provides excellent preparation for Ultrasonic Testing Level 1 examinations. It meets in full the training hour requirements as specified by the relevant PCN documentation. | * Ultrasonic testing terminology * Basic ultrasonic concepts * Ultrasound * Principles of ultrasonic testing * Flaw detector (operation and use) * Defect location and sizing techniques * Use of calibration and reference blocks * Plotting systems * Application of a written instruction * Examination of samples, welds, castings and wrought products * Report writing and discussion of relevant standards and specifications (BS EN etc.) | Contact:  Info@Leptistraining.co.uk |
| 1.1.2 Ultrasonic Testing Level 2 | This course is a combination of the UT Introduction course with appropriate Ultrasonic Testing theory and practical training. This course is PCN recognised and provides excellent preparation for Ultrasonic Testing Level 2 examinations. It meets in full the training hour requirements as specified by the relevant PCN documentation. | * Basic concepts * Ultrasound * Principals of ultrasonic testing * Flaw detector (operation and use) * Defect location and sizing techniques * Use of calibration and reference blocks * Plotting systems * Examination of samples, welds,castings and wrought products * Report writing and discussion of relevant standards and specifications (BS, EN etc) | Contact:  Info@Leptistraining.co.uk |
| 1.1.3 Ultrasonic Testing – Level 3 | This guidance course is aimed at the PCN Level 3 requirements for Ultrasonic Testing practitioners. The main objective of the course is to make candidates fully aware of the scope of the examination and level of knowledge required. It will also enable candidates to identify their weak subject areas. Advice will be given on any further tuition required. | * PCN requirements for Level 3 approval * Complementary NDT methods * Quality assurance, quality control and supervision * Specifications/procedures and techniques * Analysis of UT reports * Advanced Ultrasonic theory and revision * Analysis of procedures * Procedure writing * Mock examinations | Contact:  Info@Leptistraining.co.uk |
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| 1.1.4 Ultrasonic Testing: Critical Defect Sizing | This programme is only available to holders of current PCN Level 2 Ultrasonic Practitioner Welds certification, which is applicable to at least two groups and held for at least 6 months. | * Production of beam plots for relevant probes * Practical examination of artificial simulations to assess plotting accuracy * Discussion of relevant normative documentation including BS and EN standards * Production of DAC and sensitivity levels * Discussion relating to echo-dynamic patterns * Reporting formats * Practical defect sizing on a variety of weldments | Contact:  Info@Leptistraining.co.uk |
| 1.1.7 Ultrasonic Testing of Wrought Plate incl. Thickness Gauging | This course teaches both basic general Ultrasonic theory as well as the practical aspects required to perform thickness checks, locate & size wrought defects e.g. laminations in accordance with ISO 20807. | * Basic concepts * Ultrasound * Principals of ultrasonic testing * Flaw detector (operation and use) * Defect location and sizing techniques * Use of calibration and reference blocks * Report writing and discussion of relevant standards and specifications (BS, EN etc) * Basic Product Technology | Contact:  Info@Leptistraining.co.uk |
| 1.1.6 Ultrasonic Testing Nozzle (3.8)/Nodes (3.9)/”T” Sections (3.7) | This course extends your practical Ultrasonic Testing knowledge in the Welds category to include Nozzles (3.8) & Nodes (3.9). In gaining Nozzle (3.8) certification you are also then certified to test “T” Welds (3.7). We recommend 4 days of training for both Nozzle & Node. However, these can be done individually. | Practical Testing of:   * Nozzles * Nodes * Set in preparations * Set through preparations * Set on preparations * Both Part & Full penetration welds | Contact:  Info@Leptistraining.co.uk |
| 1.2 Advanced Ultrasonic Testing | | | |
| 1.2.1 Ultrasonic Testing: Phased Array | This programme provides detailed instructions on the inspection of ferritic welds/castings/wrought products using phased array ultrasonic testing. Suitable only for holders of current, valid UT certification approved and accepted by PCN. | * Principles of phased array probes * Principles of inspection sensitivity * Phased array instrumentation * Scanning with phased array * Calibration and checks * Software for data collection * Software familiarity * Procedures for verification of flaw existence and position * Use of software tools * Data analysis | Contact:  Info@Leptistraining.co.uk |
| 1.2.2 Ultrasonic Testing: TOFD | This TOFD welds course provides detailed information on the inspection of ferritic steel welds by the ultrasonic time of flight method. | * Ultrasonic theory * Theory of diffracted ultrasonic waves * Digitisation principles * Hardware utilised in TOFD * Calibration/setting up of equipment * Extensive practical element * Analysis software * Analysis and interpretation * Reporting * Relevant standards/PCN documentation | Contact:  Info@Leptistraining.co.uk |
| 1.3 Penetrant Testing Courses | | | |
| 1.3.1 Penetrant Testing Level 1 | Candidates will have the opportunity to use the various techniques on welds, castings and wrought products whilst gaining detailed theoretical and practical knowledge on all the commonly encountered penetrant testing techniques. | * Penetrant testing terminology * Introduction to the penetrant method * Principles of penetrant inspection * Penetrant inspection equipment * Performance checking * Defect detection and evaluation * Penetrant techniques * Relevant standards & H&S considerations * PCN documentation * Product technology * Extensive practical element | Contact:  Info@Leptistraining.co.uk |
| 1.3.2 Penetrant Testing Level 2 | Candidates will have the opportunity to use the various techniques on welds, castings and wrought products whilst gaining detailed theoretical and practical knowledge on all the commonly encountered penetrant testing techniques. | * Introduction to the penetrant method * Principles of penetrant inspection * Penetrant inspection equipment * Performance checking * Defect detection and evaluation * Production of written technique * Penetrant techniques * Relevant standards * PCN documentation * Extensive practical element * Product technology | Contact:  Info@Leptistraining.co.uk |
| 1.3.3 Penetrant Testing Level 3 | This guidance course is aimed at the PCN Level 3 requirements for Penetrant Testing practitioners. The main objective of the course is to make candidates fully aware of the scope of the examination and level of knowledge required. It will also enable candidates to identify their weak subject areas. Advice will be given on any further tuition required. | * PCN requirements for Level 3 approval * Complementary NDT methods * Quality assurance, quality control and supervision * Specifications/procedures and techniques * Analysis of PT reports * Advanced penetrant theory and revision * Analysis of procedures * Procedure writing * Mock examinations | Contact:  Info@Leptistraining.co.uk |
| 1.4 Magnetic Particle Testing | | | |
| 1.4.1 Magnetic Particle Testing Level 1 | Magnetic Particle Testing candidates will have the opportunity to use a large variety of equipment on welds, castings and wrought products on this theoretical and practical course. | * Magnetic particle testing terminology * Properties of magnetic fields * Principles of magnetic particle inspection * Magnetic particle inspection equipment * Equipment calibration * Defect detection and evaluation * Magnetic particle inspection techniques * Relevant standards & H&S considerations * PCN documentation * Product technology * Extensive practical element | Contact:  Info@Leptistraining.co.uk |
| 1.4.2 Magnetic Particle Testing Level 2 | Magnetic Particle Testing level 2 candidates will have the opportunity to use a large variety of equipment on welds, castings and wrought products on this theoretical and practical course. Suitable for beginners and personnel with existing NDT knowledge and PCN recognised, providing excellent preparation for Level 2 MPI examinations. It meets the training hour requirements as specified by the relevant PCN documentation. | * Properties of magnetic fields * Principles of magnetic particle inspection * Magnetic particle inspection equipment * Equipment calibration * Defect detection and evaluation * Magnetic particle inspection techniques * Production of written technique * Relevant standards * PCN documentation * Product technology * Extensive practical element | Contact:  Info@Leptistraining.co.uk |
| 1.4.3 Magnetic Particle Testing Level 3 | This is a guidance course aimed at the PCN Level 3 requirements for Magnetic Particle Inspection practitioners. The main objective of the course is to make candidates fully aware of the scope of the examination and level of knowledge required, while also identifying their weak subject areas. Advice will be given on any further tuition required. | * PCN requirements for Level 3 approval * Complementary NDT methods * Quality assurance, quality control and supervision * Specifications/procedures and techniques * Analysis of MPI reports * Advanced MPI theory and revision * Analysis of procedures * Procedure writing * Mock examinations | Contact:  Info@Leptistraining.co.uk |
| 1.5 Visual Testing | | | |
| 1.5.1 Visual Testing Level 1 | Designed to provide a full appreciation of the methods and practices of visual testing. A high level of theoretical and practical content is offered within these courses in preparation for PCN Level 1 examinations. The course meets the training hour requirements as specified in the relevant PCN documentation. | * Definitions * Vision * Lighting * Environmental factors, direct and indirect methods of visual assessment * Visual inspection equipment * Surface conditions * Inspection and testing criteria * The reporting of results * Application of a written instruction * Codes and standards * Product technology (welds, castings, wrought), in-service and secondary process defects | Contact:  Info@Leptistraining.co.uk |
| 1.5.2 Visual Testing Level 2 | Designed to provide a full appreciation of the methods and practices of visual testing. A high level of theoretical and practical content is offered within these courses in preparation for PCN Level 2 examinations. The courses meet the training hour requirements as specified in the relevant PCN documentation. | * Definitions * Vision * Lighting * Environmental factors, direct and indirect methods of visual assessment * Visual inspection equipment * Surface conditions * Inspection and testing criteria * The reporting of results * Application of a written instruction * Codes and standards   Product technology (welds, castings, wrought), in-service and secondary process defects | Contact:  Info@Leptistraining.co.uk |
| 1.5.3 Visual Testing Level 3 | This programme includes a combination of general theory and specific application theory with procedure writing. It is ideal preparation for PCN Level 3 examinations. The courses meet the training hour requirements as specified in the relevant PCN documentation. | * Overview * Physics of light * The eye and vision * Environmental conditions * Light sources * Optical aids * Measuring equipment * Temperature measurement * Surface conditions * Inspection procedures * Recording and reporting * Procedure writing * Definitions | Contact:  Info@Leptistraining.co.uk |
| 1.6 Weld Inspector | | | |
| 1.6.1 Weld Inspector: PCN Level 1 | This course covers the requirements of applicable standards and general theory and can lead to certification via a visual weld inspection approval route. | * The role of a visual welding inspector * Inspection equipment and the use of gauges * Welding related standards and codes * Welding processes and terminology * Pre-weld, pre-heat and post weld visual inspection * Welding consumables * Basic steel weld metallurgy * Welding defects * Defect acceptance levels * Safety issues * Fit-ups | Contact:  Info@Leptistraining.co.uk |
| 1.6.2 Weld Inspector: PCN Level 2 | This course is intended for personnel with experience in welding inspection, welder training or welding supervision, who are wishing to consider a formal inspection certification route | * Welding processes * Consumables * Procedures * Welding defects * Specifications * Specification analysis * Mechanical testing of welds * Cutting and joint preparation * Basic steel metallurgy * Heat-affected zone * Pre-heat and post heat * Weld repairs * Weld symbols * Practical exercises * Examination syllabuses * Fit-ups | Contact:  Info@Leptistraining.co.uk |
| 1.6.3 Weld Inspector: PCN Level 3 | Ideal for experienced welding inspectors who hold approved weld inspector status in an appropriate certifying scheme, i.e. PCN or equivalent. The course is designed to review, reinforce and develop the additional subjects required for Weld Inspector Level 2 approval. | * Technical and supervisory qualities required * Quality assurance * Auditing * Content of NDT reports (theory and practical) * NDT capabilities and limitations * Assessment of fracture samples * Review of all welding/senior welding inspector examination syllabuses * Steel metallurgy * Crack mechanisms * Welding symbols * Consumables * Practical exercises * Examination syllabuses | Contact:  Info@Leptistraining.co.uk |
| 1.7 Eddy Current Testing | | | |
| 1.7.1 Eddy Current Testing Level 1 | This course provides detailed information on the inspection of welds utilising the Eddy Current Testing method, incorporating the latest equipment. This course is suitable for beginners and personnel with an existing NDT knowledge. This course is PCN approved and provides excellent preparation for the Level 1 examination as specified by the relevant PCN documentation. | * Electrical properties * Principles of magnetism * Principles of electromagnetism * Eddy-current inspection equipment * Equipment calibration * Defect detection and evaluation * Eddy Current techniques * Extensive practical experience * Relevant standards * PCN documentation | Contact:  Info@Leptistraining.co.uk |
| 1.7.2 Eddy Current Testing Level 2 | This course is suitable for beginners and personnel with existing NDT knowledge. Students are able to qualify straight to Level 2, (candidates must complete both Level 1 and Level 2 training courses) or build on their existing Level 1 certification.  This course is PCN approved and provides excellent preparation for the Level 2 examination as specified by the relevant PCN documentation. | * Electrical properties * Principles of magnetism * Principles of electromagnetism * Eddy Current inspection equipment * Equipment calibration * Defect detection and evaluation * Eddy Current techniques * Extensive hands-on experience * Report/instruction writing * Relevant standards * PCN documentation | Contact:  Info@Leptistraining.co.uk |
| 1.7.3 Eddy Current Testing Level 3 | This course is suitable for experienced personnel with existing Eddy Current knowledge. The course is designed to provide a more profound knowledge within Eddy Current Testing and to educate in the production of written procedures.  This course is PCN approved and provides excellent preparation for the Level 3 examination as specified by the relevant PCN documentation. | * Upgraded knowledge of the following: * Eddy Current History * Electrical properties * Principles of magnetism * Principles of electromagnetism * Eddy Current Calculations * Alternative/Advanced uses of Eddy Current * Eddy Current inspection equipment * Equipment calibration * Defect detection and evaluation * Eddy Current techniques * Procedure Writing * Relevant standards * PCN documentation. | Contact:  Info@Leptistraining.co.uk |
| 1.8 Radiographic Testing | | | |
| 1.8.1 Radiographic Interpretation | Suitable for those who require an in-depth knowledge of the radiographic interpretation of welds. The course concentrates on the identification of weld defects, assessment of radiographic quality and sentencing to example specifications. All information necessary for candidates attempting PCN or ASNT radiographic interpreters examinations is issued. | * Properties and production of X-ray and gamma rays * The formation of a latent image * Radiographic film * Identification of weld and/or casting types and defects * Assessment and measurement of radiographic quality * Sentencing to specifications * Image quality * Radiographic techniques * Weld technology * Interpretation of radiographs * Specifications | Contact:  Info@Leptistraining.co.uk |
| 1.8.2 Basic Radiation Safety (BRS) | This programme is tailored for those with very little or no knowledge of radiation safety. It is suited to those requiring knowledge of radiation safety including trainees, industrial radiographers, managers and supervisors. | * Basic radiation physics * Radiographic equipment * Radiation units * Biological effects * Dose limits * Radiation detection and measurement * Protection against radiation * Calculations for radiation protection * Storage of radiation sources * Transport of radioactive substances * Appointments and responsibilities * Local rules and contingency plans * Personal dosimetry * Normative documents * Ionising Radiation Regulation (1999) | Contact:  Info@Leptistraining.co.uk |
| 1.8.3 Radiation Protection Supervisor (RPS) | Designed for industrial radiographers who already have at least a basic knowledge of radiation safety (see Radiation Safety: Basic – AR/BRS). The course assumes candidates are following a Radiation Protection Supervisor (RPS) qualification route, although it must be appreciated that the RPS designation is the responsibility of the employer. | * Review of basic radiation safety * Normative documents and legislative structure * Biological effects * Radioactive Substances Act * Dose limitation * The regulation of work with radiation * The role of the RPA and RPS * Principles and practices of radiation protection * Radiation monitoring * Transport of radioactive substances * Personal dosimetry * Emergency procedures * Ionising Radiation Regulation (1999) | Contact:  Info@Leptistraining.co.uk |
| 1.8.4 Radiographic Testing (RT) Welds/Castings | This programme involves RT Theory and Practical training and is PCN recognised providing excellent preparation for the Level 1 examinations; it meets in full the training hour requirements as specified by the relevant PCN documentation..  Also suitable for employer based certification schemes such as SNT-TC-1A / EN4179 / NAS410. | * Basic radiation safety * Properties of X-ray and Gamma rays * Atomic structures * Generation of X-rays * Natural and artificial gamma radiation sources * Gamma ray equipment * Radiographic film * Intensifying screens, exposure charts, calculations * Techniques for weld and/or casting radiography * Darkroom procedures * Radiographic quality * Application of a written instruction/radiographic technique * Specifications and procedures * Practical exercises | Contact:  Info@Leptistraining.co.uk |
| **2. Coating & Corrosion** | | | |
| 2.1 Paint Inspector | | | |
| 2.1.1 Paint Inspector  Level 1 | This course is designed to prepare individuals for the ICorr Paint Inspector Level 1 examination. The course is suitable for candidates with or without experience in industrial painting or inspection and will also be applicable to those who require a knowledge of painting inspection but do not wish to take an examination. Most of the paint systems used in industry are addressed plus an awareness is given of other coating systems used for anti-corrosion reasons. | * QA, OC and inspection (basics) * Normative documents * Corrosion (iron and steel) * Surface preparation (ferrous) * Tests to detect surface contamination * Coating categories/types * Main paint constituents * Paint drying and curing * Corrosion protection methods (basics) * Layers of a paint film * Types of paint systems * Paint data sheets * Paint/paint film testing * Weather conditions * Paint application methods * Coating faults * Health and safety * Environmental considerations * Reporting * Standards applicable * Understanding written instructions | Contact:  Info@Leptistraining.co.uk |
| 2.1.2 Paint Inspector  Level 2 | This course is designed to prepare ICorr Level 1 Paint Inspectors for the Level 2 examination. Any information in the syllabus below, which is repeated from the Level 1 syllabus, is dealt with in greater depth and in some cases involves practical usage of equipment, e.g. use of density cups, flow cups, contamination testing and using electromagnetic d.f.t. instruments with statistical capabilities. | * QA, OC and inspection * Document control * Equipment control and calibration * Production of written instructions * Interpretation of normative documents * Corrosion * Control and testing of blasting abrasives * Contamination testing * Paint formulation * Coating systems * Paint manufacture * Paint/paint film testing * Hygrometers * Application of metal coatings * Coating faults * Paint colours – coding systems * Cathodic protection * IMO requirements | Contact:  Info@Leptistraining.co.uk |
| 2.1.3 Paint Inspector  Level 3 | This course is designed to prepare ICorr Level 2 Paint Inspectors for the Level 3 examination. Quality assurance, specification analysis and procedure writing are the main aspects of a Level 3 training course. Corrosion and paint technology are two areas dealt with to a greater depth compared to Level 2.  A review of Level 2 subject matter is introduced on the first day of this course, however, if any candidates are aware that they are weak on Level 2 theory and practice, they should endeavour to revise or attend a Level 2 training course before attending a Level 3 course. | * Quality documentation * Standards * Basic metallurgy * Corrosion mechanisms * Geomagnetically induced currents * Corrosion under insulation * Negative buoyancy coatings * Treatment of structural timbers * Tanking of concrete fabrications * Structural GRP composites * Leadership skills * Procedure writing * Report writing * Libel and slander | Contact:  Info@Leptistraining.co.uk |
| 2.2 ICATS Courses | | | |
| 2.2.1 Industrial Coating Applicator “Specialist Blaster” | ICATS is a comprehensive structured training scheme for the registration, training and certification of industrial surface preparation and coating operatives. The scheme contains ICA, Industrial Coating Applicator, Specialist Sprayer and Specialist Blaster modules. | Chapter 1: Introduction to the Blaster course including audio set  up of the course.  Chapter 2: RAMS, Data Sheets, Group Activities, Method Statements,  Risk Assessments, Specifications, Steel, Corrosion, Standards,  Compressors, Blasting and profile, Abrasives, Dust and RPE, Lead,  Group activities and Tests.  Chapter 3: Abrasives, Equipment, Cast and Wrought Iron, Passivity,  Blasting problem materials, PPE and RPE, Working Conditions, Safety  Features, Dust collection and Waste, Vibration and Manual Handling,  Storage and Housekeeping, Cleanup, Trouble shooting, Vacuum  Blasting, Wet Abrasive Blasting, High pressure Water Jetting, Ultra  High Water jetting, Group Activities and Tests  Chapter 4: Audio completion and feedback.  Chapter 5: Practical’s information and forms. | Contact:  Info@Leptistraining.co.uk |
| 2.2.2 Industrial Coating Applicator “Specialist Sprayer” | ICATS is a comprehensive structured training scheme for the registration, training and certification of industrial surface preparation and coating operatives. The scheme contains ICA, Industrial Coating Applicator, Specialist Sprayer and Specialist Blaster modules. | Chapter one: Introduction to the Sprayer course including audio set  up of the course.  Chapter 2: RAMS, Data Sheets, Group Activities, Method Statements,  Risk Assessments, Specifications, Steel, Protecting Steel, Paint  Constituents.  Paint mixing, Metal Spraying, Rust Grades and Standards, Airless  Spraying, Plural Spraying, Ventilation.  Chapter 3: Volume Solids, Wet Film Thickness, Dry Film Thickness,  Control Measures, Environmental Conditions  Spray Gun Parts, Spray Pump Parts, Fault Identification, Air Assisted  Spraying, HVLP, High Volume Low Pressure, Spraying, Paint Faults  Chapter 4: Audio completion and feedback.  Chapter 5: Practical’s information and forms | Contact:  Info@Leptistraining.co.uk |
| 2.2.3 ICA , Industrial Coating Applicator: | ICATS is a comprehensive structured training scheme for the registration, training and certification of industrial surface preparation and coating operatives. The scheme contains ICA, Industrial Coating Applicator, Specialist Sprayer and Specialist Blaster modules. | Chapter one: Introduction to the ICA course including audio set up of  the course.  This is followed by a closed book 10 question test to see what  knowledge the students have before the course begins. The same 10  question test is repeated at the end of the course again closed book,  this is one measure of how the student has improved during teaching.  Chapter 2: Begins with Health and Safety in our industry including  set up audio. Subject material includes: The importance of training,  CDM, Construction Design Management, work practices and  procedures, drugs and alcohol, method statements, risk assessments,  COSHH, health screening, Lead at work, site induction, permits to  work, electricity at work, generators, lighting, manual handling, site  set up and welfare, house keeping (slips and trips), accident  reporting, respiratory protective equipment, hearing protection  including attenuation, eye/face protection, hand/arm protection, foot  protection, body protection, skin protection, mental health.  Chapter completes with a 20 question closed book test.  Chapter 3: Begins with Corrosion Protection including set up audio.  Subject material includes: What is steel including mill scale,  weathering steel, general corrosion, scale of nobility, pitting  corrosion, crevice corrosion, galvanic corrosion, paint protection,  what is in paint, volume solids, drying curing methods, pot life,  relative humidity, other curing methods, binder type options and  functions, non convertible/convertible coatings, metal coatings  including CP and thermal metal spraying.  Chapter completes with a 20 question closed book test.  Chapter 4: Begins with Standards and Normative Documents  including set up audio. Subject material includes: The painting  specification, product data sheets, product safety data sheets,  preparation standards including ISO 8501, SSPC/Nace (all processes,  blasting dry and wet, water jetting etc).  Chapter completes with a 20 question closed book test.  Chapter 5: Begins with Working Processes including set up audio.  Subject material includes: Degreasing, pressure washing, solvent  washing, steam cleaning, flame cleaning, power supply, blasting  including abrasive types, profile, paint inspection (intro), PPE/RPE  for blasting, vacuum blasting, blast booth/room, water jetting, ultra  high water jetting, small tool preparation, chipping hammer, needle  gun, grinding and disking, feathering, mechanical wire brushing,  hand arm vibration, scraping, wire brushing, abrading, St3 repairs,  tool box talks/site briefings.  Chapter completes with a 20 question closed book test.  Chapter 6: Begins with Adhesion and paint Service including set up  audio. Subject material includes: Surface profile, primer/mid-  coat/top coat, drying categories, over coating, cross  polymerization/chemical bonding, over painting, contamination,  relative humidity/dew point, environmental conditions, problems  associated with hot/cold steel, wet film thickness, understanding the  specification, paint consumption, dry film thickness, touch dry, hard  dry, full cure, records.  Chapter completes with a 20 question closed book test.  Chapter 7: Begins with Paint Application including set up audio.  Subject material includes: Paint store/storage, brush application,  stripe coating, roller application, glove application, paint spraying,  airless spraying, spray booth painting, air assisted spraying, HVLP  spraying, plural spraying, paint trials, hazardous paints/materials,  paint faults, galvanized steel and how to paint it, aluminium how to  paint it, GRP how to paint it, VOC’s, ventilation, Occupational  Exposure Standards, gas monitoring, cleaning after painting.  Chapter completes with a 20 question closed book test.  Chapter 8: Begins with Access Options including set up audio. Subject  material includes: Work at height regulations, ladders, stepladders,  light weight towers, scaffolding, MEWPS, Mobile Elevating Working  Platforms, Rope Access, Cradles, Gantries, Roofs.  Chapter completes with a 20 question closed book test.  Chapter 9: Begins with Tools and Equipment Maintenance including  set up audio. Subject material includes: PUWER Provision and Use of  Works Equipment regulations, LOLER Lifting Operations and Lifting  Equipment Regulations, PAT testing Portable Appliance Testing,  cleaning and maintaining brushes, cleaning and maintaining rollers,  cleaning paint spray equipment, grinder maintenance, needle gun  maintenance, compressor maintenance, harness maintenance.  Chapter completes with a 20 question closed book test.  Chapter 10: Begins with Specific Industries including set up audio.  Subject material includes: Night painting, Road Working and Traffic  Management, Marine Painting, Introduction to fire proofing paint  systems, Railways, Offshore Painting, Height Awareness, Fire  Training, ladder Training, Confined Space Training, Abrasive Wheels,  First Aid, Rescue Plans, Containment, Shop/factory painting.  Chapter completes with a 20 question closed book test. | Contact:  Info@Leptistraining.co.uk |
| 2.2.4 Industrial Coating Applicator “Supervisor Course” | ICATS is a comprehensive structured training scheme for the registration, training and certification of industrial surface preparation and coating operatives. The scheme contains ICA, Industrial Coating Applicator, Specialist Sprayer and Specialist Blaster modules. | Day one  Qualities and Duties of a Supervisor  COSHH and Risk assessments  Health and Safety and Product Data Sheets  Method Statements and Specifications  Quality Standards ISO 9001  Tests and activities  Day two  Toolbox Talk  Paint Technology  Identifying Paint Failures and faults and How To Avoid Them  Understanding Painting Inspection  Tests and activities | Contact:  Info@Leptistraining.co.uk |
| 2.3 Insulation Inspector | | | |
| 2.3.1 Insulation Inspector – Level 2 | This course is designed to prepare individuals for the ICorr Insulation Inspector Level 2 examination. This course assumes all candidates hold an ICorr Painting Inspector approval (any level) and therefore have some knowledge of inspection philosophy. Some corrosion and coating knowledge is also important for the insulation inspector due to the large amount of corrosion problems which have arisen under insulation. Inspection of both thermal (hot and cold) insulation and acoustic insulation is covered and is applicable to pipework, vessels and equipment used in the gas, oil and process industries. | * Quality assurance * Inspection and quality control * Normative documents * Insulation systems * Insulating materials * Protective coverings * Fixings * Insulation design (basic) * Application of insulation * Scaffolding * Handling and storage of materials * Health and safety considerations * Common problems encountered * Corrosion under insulation * Reporting * Standards applicable | Contact:  Info@Leptistraining.co.uk |
| 2.4 Hot Dip Galvanizing Inspector | | | |
| 2.4.1 Hot Dip Galvanizing Inspector Course | Produced with the assistance of the Galvanizers Association, this course is designed to prepare individuals for the ICorr Hot Dip Galvanizing Inspector examination. This may be taken on the second half of the second day of the course, or on any other weekday thereafter provided the examination is taken within 90 days of the end of the course. | * HDG overview * Corrosion mechanisms * Surface preparation * Galvanizing chemistry * Inspection overview * Organic coating on galvanizing * Testing of galvanizing * Coating Faults * Handling and storage * Coating repair methods | Contact:  Info@Leptistraining.co.uk |
| 2.5 Fire Protection (PFP) Coating Inspector | | | |
| 2.5.1 Passive Fire Protection (PFP) Coating Inspector (Epoxy) Level 2 | The purpose of this NEW course is to train and examine Inspectors of epoxy intumescent Passive Fire Protection (PFP) on the inspection of common types of epoxy coatings used to protect against hydrocarbon fires on installations for both on and offshore facilities. | * Overview of passive fire protection * Development process of an epoxy PFP system * Factors affecting durability * Common defects * Typical equipment used by an Inspector * Health & Safety requirements for site working * Documentation to be reviewed * Role of the Inspector on site * What an Inspector monitors during PFP application * Inspection & Reporting | Contact:  Info@Leptistraining.co.uk |
| 2.5.2 Passive Fire Protection (PFP) Coating Inspector (Epoxy) Level 3 | The purpose of this NEW course is to train and examine senior Inspectors of epoxy intumescent Passive Fire Protection (PFP) on all aspects of the inspection of common types of epoxy coatings used to protect against hydrocarbon fires on installations for both on and offshore facilities. | * Role and duties of the PFP Inspector (part one) * Introduction to PFP (what is it for) * PFP types (introduction) * PFP types (detailed overview) * PFP of structures, divisions, process and storage vessels * Classification Society type approval, other types of approval (e.g. UL) * Qualification of PFP systems (the importance of supporting * documentation) * How PFP materials and systems are developed, tested and approved * Epoxy PFP degradation mechanisms (pre-fire durability, survivability in a fire) * Examples of application defects * How fire performance can be affected by defective application * The specification; relevance, errors or omissions, epoxy PFP * manufacturer manual, epoxy PFP extent and thickness/details, * Class Approvals * Pre-job meeting, ITP, quality control at all stages of application * The critical importance of good surface preparation * Epoxy PFP application equipment (types and checks you can do) * Final thickness, topcoat, role and duties of epoxy PFP inspector (part two) * What to look out for, test equipment, reporting * Practice test * Safety overview * Examination (150 multiple-choice questions) * Peer review | Contact:  Info@Leptistraining.co.uk |
| 2.6 Cathodic Protection | | | |
| 2.6.1 Cathodic Protection Concrete | | | |
| 2.6.1.1 Cathodic Protection Concrete ISO Level 1 | These ICorr courses and examination are in compliance with ISO 15257:2017 and are suitable for candidates without experience in cathodic protection, but candidates are expected to have some site experience in concrete repairs and in they may have been a part of teams installing CP systems in concrete. The courses are also directed to testers or data collectors who collect simple CP performance data. For certification to ISO 15257, an examination pass and a subsequent application and assessment by the ICorr Professional Assessment Committee are required. | The following topics are relevant to this application sector:   * The basics of metals & corrosion * Basic potential measurement techniques of metals in solution * Half-cell potential survey techniques for steel in concrete * Resistivity survey techniques for steel in concrete * Calibration & checking of NDT equipment * Galvanic Anodes (Repair Enhancers) for steel in concrete * Introduction to the concept of CP * Basic CP system measurements & data recording * Introduction to electrical safety in CP * This application sector includes, for example, the following: * Atmospherically exposed steel-reinforced (both post-tensioned and pre-stressed) concrete, onshore structures (bridges, walls, piles, buildings etc.); * Buried steel-reinforced (both post-tensioned and pre-stressed) concrete structures (pipelines, tunnels, foundations, etc.); * Steel-reinforced (both post-tensioned and pre-stressed) concrete structures immersed in fresh water (pipe lines, foundations, swimming-pools, water tanks); * Steel-reinforced (both post-tensioned and pre-stressed) concrete structures immersed in seawater (harbour facilities, piers, jetties, offshore platforms).   The topics of this course are fully set out and described in ISO 15257 Clause 6. The rules governing training, examination and certification are set out in ICorr QPD. | Contact:  Info@Leptistraining.co.uk |
| 2.6.1.2 Cathodic Protection Concrete ISO Level 2 | These ICorr courses and examination are in compliance with ISO 15257:2017 and are suitable for candidates with or without experience in cathodic protection, but note that full certification to this level requires a minimum duration of one year’s approved experience, an examination pass and a subsequent application and assessment by the ICorr Professional Assessment Committee. The courses are also suitable for those who merely require an appreciation of the protection of reinforced concrete structures without pursuing certification in accordance with ISO 15257. | The following topics are relevant to this application sector:   * CP general principles; * CP measurement techniques; * specific applications of steel in concrete; * other electrochemical techniques that are also aimed at mitigating corrosion of steel embedded in concrete, such as electrochemical re-alkalization and chloride extraction treatments for reinforced concrete.   This application sector includes, for example, the following:   * atmospherically exposed steel-reinforced (both post-tensioned and pre-stressed) concrete, onshore structures (bridges, walls, piles, buildings etc.); * buried steel-reinforced (both post-tensioned and pre-stressed) concrete structures (pipelines, tunnels, foundations, etc.); * steel-reinforced (both post-tensioned and pre-stressed) concrete structures immersed in fresh water (pipe lines, foundations, swimming-pools, water tanks); * steel-reinforced (both post-tensioned and pre-stressed) concrete structures immersed in seawater (harbour facilities, piers, jetties, offshore platforms).   The topics of this course are fully set out and described in ISO 15257 Clause 6. The rules governing training, examination and certification are set out in ICorr QPD. | Contact:  Info@Leptistraining.co.uk |
| 2.6.1.3 Cathodic Protection Concrete ISO Level 3 | These ICorr courses and examination are in compliance with ISO 15257:2017 and are suitable for candidates with or without experience in cathodic protection, but note that full certification to this level requires a minimum duration of one year’s approved experience, an examination pass and a subsequent application and assessment by the ICorr Professional Assessment Committee. The courses are also suitable for those who merely require an appreciation of the protection of reinforced concrete structures without pursuing certification in accordance with ISO 15257. | The following topics are relevant to this application sector:   * CP general principles; * CP measurement techniques; * specific applications of steel in concrete; * other electrochemical techniques that are also aimed at mitigating corrosion of steel embedded in concrete, such as electrochemical re-alkalization and chloride extraction treatments for reinforced concrete.   This application sector includes, for example, the following:   * atmospherically exposed steel-reinforced (both post-tensioned and pre-stressed) concrete, onshore structures (bridges, walls, piles, buildings etc.); * buried steel-reinforced (both post-tensioned and pre-stressed) concrete structures (pipelines, tunnels, foundations, etc.); * steel-reinforced (both post-tensioned and pre-stressed) concrete structures immersed in fresh water (pipe lines, foundations, swimming-pools, water tanks); * steel-reinforced (both post-tensioned and pre-stressed) concrete structures immersed in seawater (harbour facilities, piers, jetties, offshore platforms).   The topics of this course are fully set out and described in ISO 15257 Clause 6. The rules governing training, examination and certification are set out in ICorr QPD. | Contact:  Info@Leptistraining.co.uk |
| 2.6.2 Cathodic Protection Buried | | | |
| 2.6.2.1 Cathodic Protection Buried ISO Level 1 | The course and examination are in compliance with ISO 15257:2017 and are suitable for candidates with no previous experience in cathodic protection. The course is also suitable for those who merely require an appreciation of Cathodic Protection of On-land Applications (underground metallic structures) without pursuing certification. | * Corrosion basics * Health and safety * Corrosion prevention * CP general principles and specific applications in soils; * CP measurement techniques; * CP Criteria; * touch potentials; * buried onshore pipelines; * Monitoring; * Fault finding.   The topics of this course are fully set out and described in ISO 15257 Clause 6. The rules governing training, examination and certification are set out in ICorr Qualification Procedure Document. | Contact:  Info@Leptistraining.co.uk |
| 2.6.2.2 Cathodic Protection Buried ISO Level 2 | The course and examination are in compliance with ISO 15257:2017 and are suitable for candidates with or without experience in cathodic protection. Please note that full certification to the level requires a minimum duration of 1 year’s approved experience. The course is also suitable for those who merely require an appreciation of Cathodic Protection of Buried Applications (underground and immersed metallic structures) without pursuing certification. | The following topics are relevant to this application sector:   * CP general principles and specific applications in soils and waters; * CP measurement techniques; * protection against corrosion by stray current from direct current systems; * interference alternating current and direct current; * touch potentials. * This application sector includes, for example, the following: * buried onshore pipelines; * sections of onshore pipelines crossing rivers, lakes or short lengths of sea; * landfalls of offshore pipelines protected by an onshore CP system; * buried tanks; * bottoms (external side) of above-ground tanks; * complex structures * well casings; * buried plant modules. | Contact:  Info@Leptistraining.co.uk |
| 2.6.2.3 Cathodic Protection Buried ISO Level 3 | The course and examination are in compliance with ISO 15257:2017 and are suitable for candidates with the requisite qualifying experience. The course is suitable for those who took the Level 2 training course and those who merely require an appreciation of the cathodic protection of Buried Applications (Underground and Immersed Metallic Structures) at this higher level without pursuing certification. | The following topics are relevant to this application sector:   * CP general principles and specific applications in soils and waters; * CP measurement techniques; * protection against corrosion by stray current from direct current systems; * interference alternating current and direct current; * touch potentials.   This application sector includes, for example, the following:   * buried onshore pipelines; * sections of onshore pipelines crossing rivers, lakes or short lengths of sea; * landfalls of offshore pipelines protected by an onshore CP system; * buried tanks; * bottoms (external side) of above-ground tanks; * complex structures * well casings; * buried plant modules.   The topics of this course are fully set out and described in ISO 15257 Clause 6. The rules governing training, examination and certification are set out in ICorr QPD. | Contact:  Info@Leptistraining.co.uk |
| 2.6.3 Cathodic Protection Marine | | | |
| 2.6.3.1 Cathodic Protection Marine ISO Level 2 | This course is designed to prepare individuals for the ICorr Painting Inspector Level 1 examination. The course is suitable for candidates with or without experience in industrial painting or inspection and will also be applicable to those who require a knowledge of painting inspection but do not wish to take an examination. Most of the paint systems used in industry are addressed plus an awareness is given of other coating systems used for anti-corrosion reasons. | The following topics are relevant to this application sector:   * CP general principles * CP measurement techniques * specific applications in seawater and marine sediments.   This application sector includes, for example, the following:   * ships (external hulls and ballast tanks) * CP measurement techniques * fixed offshore structures (platforms, jackets, monopiles, offshore windfarms, tension leg platforms, etc.) * floating structures (buoys, semi-submersible platforms, floating production storage and offloading structures (FPSO) * underwater structures (well heads, manifolds, piping) * coastal and offshore pipelines, risers * landfall of offshore pipelines protected by an offshore CP system * harbour facilities, piers, jetties and lock gates.   The topics of this course are fully set out and described in ISO 15257 Clause 6. The rules governing training, examination and certification are set out in ICorr QPD. | Contact:  Info@Leptistraining.co.uk |
| 2.6.3.2 Cathodic Protection Marine ISO Level 3 | The course and examination are in compliance with ISO 15257:2017 and are suitable for candidates with the requisite qualifying experience. The course is suitable for those who took the Level 2 training course and those who merely require an appreciation of the cathodic protection of marine structures at this higher level without pursuing certification. | The following topics are relevant to this application sector:   * CP general principles * CP measurement techniques * specific applications in seawater and marine sediments.   This application sector includes, for example, the following:   * ships (external hulls and ballast tanks) * CP measurement techniques * fixed offshore structures (platforms, jackets, monopiles, offshore windfarms, tension leg platforms, etc.) * floating structures (buoys, semi-submersible platforms, floating production storage and offloading structures (FPSO) * underwater structures (well heads, manifolds, piping) * coastal and offshore pipelines, risers * landfall of offshore pipelines protected by an offshore CP system * harbour facilities, piers, jetties and lock gates.   The topics of this course are fully set out and described in ISO 15257 Clause 6. The rules governing training, examination and certification are set out in ICorr QPD. | Contact:  Info@Leptistraining.co.uk |
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