



Engineering Construction Industry Training Board

# THE INTERNATIONAL COMPETENCE IN ENGINEERING - CONSTRUCTION SCHEME

CONTENTS

1	The ECITB ICE scheme	3
2	ECITB ICE qualification process	6
3	ECITB ICE qualifications criteria	8
4	ECITB ICE qualification renewal process	9
5	ECITB Technical Tests	10
6	The System of Assessment	17

# INTERNATIONAL COMPETENCE IN ENGINEERING - CONSTRUCTION

## Introduction

This booklet has been developed to provide anyone considering the ECITB International Competence in Engineering - Construction (ICE) scheme with an introduction to the qualifications currently available through the scheme. This booklet contains a copy of the relevant ICE units within the Level 1, 2, 3 and 4 qualifications as well as a summary of the way in which ICE is constructed; what the process is in achieving the qualification; and how it is assessed.

## 1 The ECITB ICE SCHEME

The ECITB ICE scheme measures a range of skills against ECITB Occupational Standards in the engineering - construction industries to validate the technical competence of an applicant. ICE recognises the importance of continuous training and assessment through the ICE renewal process.

The ICE Framework specifies the skills and job knowledge required to work in an Engineering - Construction environment.

The ICE Framework provides users with consistent guidelines under which to work to achieve and maintain the standards and levels of job knowledge and skills required by the engineering - construction industry.

ICE Frameworks are set at Levels 1, 2, 3 and 4.

### **ICE Level 1**

Jobs that involve a range of tasks, most of which fall into a set pattern and don't change.

### **ICE Level 2**

Jobs that involve a range of varied activities, in a variety of contexts. Some of the activities will be complex, and the person will have some individual responsibility or autonomy. The job may also involve collaboration with others, perhaps through membership of a work group or team.

### **ICE Level 3**

Jobs that involve a broad range of activities in a variety of contexts, most of which are complex and non-routine. The person will usually be working with considerable responsibility and autonomy, and may have control or guidance of others.

### **ICE Level 4**

Jobs that involve a broad range of complex, technical or professional work activities. The person will be required to perform the tasks in a wide variety of contexts and with a substantial degree of personal responsibility and autonomy. The person will often be responsible for the work of others and for allocating resources.

# The jobs covered by the ECITB ICE framework:

## ECITB ICE Level 1



Such frameworks are often bespoke and include;

- Health and Safety for the Rail Industry (Qatar)
- Scaffolding Assistant\*
- Thermal Insulator Assistant\*

## ECITB ICE Level 2



- Design and Draughting
- Electrical Installation
- Electrical Maintenance
- Electrical Maintenance Technician (UAE)
- Health and Safety for the Rail Industry (Qatar)
- Instrument & Control Maintenance
- Instrument Pipefitting (Small Bore Tubing)
- Mechanical Fitting
- Mechanical Maintenance
- Mechanical Process Technician (UAE)
- Non-Critical Welding\*
- Non Destructive Testing (NDT)
- Pipefitting
- Plating
- Project Control
- Rigging
- Scaffolder (Basic)\*
- Scaffold Inspector (Standard)\*
- Scaffolder (System)\*
- Steel Erecting
- Thermal Insulator\*
- Welding Preparation (Pipe)
- Welding Preparation (Plate)

### ECITB ICE Level 3



- Design and Draughting
- Electrical Installation
- Electrical Maintenance
- Instrument & Control Maintenance
- Instrument Pipefitting (Small Bore Tubing)
- Mechanical Fitting
- Mechanical Maintenance
- Non-Critical Welding\*
- Non Destructive Testing (NDT)
- Pipefitting
- Plating
- Project Control
- Rigging
- Scaffolder (Advanced)\*
- Scaffold Inspector (Complex)\*
- Thermal Insulator (Advanced)\*
- Steel Erecting
- Welding Preparation (Pipe)
- Welding Preparation (Plate)

### ECITB ICE Level 4



- Supervisory Management
- Scaffolding Supervisor\*

\*-Vocational Qualifications under development

## 2 ECITB ICE QUALIFICATIONS PROCESS

To achieve the ECITB ICE qualification candidates must attain the following components:

### ECITB ICE Level 1

- ECITB International Health and Safety Passport (IHSP) Foundation
- Specific ECITB Technical Tests as determined by the Framework

Note, relevant ECITB Technical Training Units are available for candidates to attain skills required to undertake the ECITB Technical Tests

### ECITB ICE Level 2

- ECITB International Health and Safety Passport (IHSP) Foundation
- Specific ECITB Technical Tests as determined by the Framework

Note, relevant ECITB Technical Training Units are available for candidates to attain skills required to undertake the ECITB Technical Tests

**Note, the ECITB ICE Level 2 Apprenticeship Framework requires candidates to successfully complete a minimum number of Skill Specific ECITB Technical Tests over and above that which is required for an experienced candidate to attain the same qualification**

### ECITB ICE Level 3

- ECITB International Health and Safety Passport (IHSP) Advanced
- Specific ECITB Technical Tests as determined by the Framework

Note, relevant ECITB Technical Training Units are available for candidates to attain skills required to undertake the ECITB Technical Tests

**Note, the ECITB ICE Level 3 Apprenticeship Framework requires candidates to successfully complete a minimum number of Skill Specific and Advanced Skill Specific ECITB Technical Tests over and above that which is required for an experienced candidate to attain the same qualification**

### ECITB ICE Level 4

- ECITB International Health and Safety Passport (IHSP) Supervisor
- Specific ECITB Technical Tests as determined by the Framework

Note, relevant ECITB Technical Training Units are available for candidates to attain skills required to undertake the ECITB Technical Tests

**Note, the ECITB ICE Level 4 Apprenticeship Framework requires candidates to successfully complete a minimum number of Skill Specific and Advanced Skill Specific ECITB Technical Tests over and above that which is required for an experienced candidate to attain the same qualification**

**ALL ECITB ICE QUALIFICATIONS ARE VALID FOR THREE YEARS**

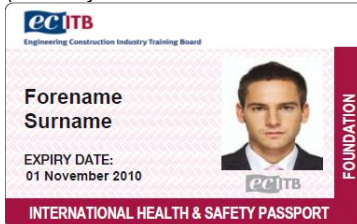
## ECITB International Health and Safety Passport (IHSP) Scheme

The aims of the ECITB International Health and Safety Passport (IHSP) scheme are to ensure that all site personnel worldwide have reached a recognised level of Health and Safety knowledge and awareness and to enable them to work on site more safely, reducing the health and safety risk to themselves and others around them.

To ensure individuals reach the required level of Health and Safety knowledge, all delegates on each of the courses MUST successfully complete the necessary training programme, which in all cases includes at least one examination. Successful candidates will then be rewarded by being issued their unique IHSP photographic passport, transferable worldwide.  
All cards are valid for three years

### ECITB IHSP Foundation

(One day course with at least one examination, passport is valid for three years)



An introductory course that is often tailored to an individual site and/or company and includes; safe working practices including elementary behavioural safety practice. It is suitable for all members of a workforce.

The course includes;

- **Fundamental Safety Considerations**
- **Hazards, Risk and Risk Control**
- **Common Workplace Hazards**
- **Accidents and Incidents**

### ECITB IHSP Advanced

(Two day course with at least two examinations, passport is valid for three years)



A course is for craftsmen and technicians that are called upon to understand and apply safe working practices in their job environment. The content is often localised to reflect the country or region where the workforce will operate. The training is also designed to support the specific site induction that employees will receive on large industrial complexes

The course includes;

- **Safe Behaviour at Work**
- **A Safe Place to Work**
- **Safe Systems of Work**
- **Safety Problems and Safe Solutions**

### ECITB IHSP Supervisor

(One day course with at least two examinations, passport is valid for three years)



A course for those workers who supervise others, it includes the essential knowledge and skills required to apply good health and safety standards and practices within their workforce. The Supervisor Passport will only be issued to people in possession of a valid ECITB International Health & Safety Passport Advanced Course.

The course includes;

- **Planning for Health and Safety**
- **Communicating Effectively**
- **Improving Health and Safety**
- **Site Responsibilities for Safety**

### 3 ECITB ICE QUALIFICATIONS CRITERIA

To achieve an ECITB ICE qualification, candidates must complete the necessary ECITB Technical Tests within a three year period of the first ECITB Technical Test being awarded.

***For security reasons, Candidates MUST apply for an ECITB ICE qualification through an ECITB Approved Training Provider.***

Upon completion of the final ECITB Technical Test of an ECITB ICE qualification, candidates should apply for the ECITB ICE qualification via their chosen ECITB Approved Training Provider.

The ECITB ICE qualification will be awarded by the ECITB if the following conditions are met in full;

- **Candidate provides evidence to prove identity to an ECITB Approved Training Provider**
- **ECITB Approved Training Provider, validates candidates identity and photographs candidate**
- **Candidate has passed the prerequisite number of ECITB Technical Tests specified by the ECITB ICE qualification within the PRECEDING THREE YEARS (with respect to the date that the ICE qualification fee is paid)**
- **The candidate is in possession of an ECITB International Health and Safety Passport at the appropriate level as determined by the ECITB ICE qualification, that has at least 1 year's validity left on it (with respect to the date that the ICE qualification fee is paid)**
- **The ECITB ICE qualification registration fee is paid**

**ALL ECITB ICE QUALIFICATIONS ARE VALID FOR THREE YEARS**



## 4 ECITB ICE QUALIFICATIONS RENEWAL PROCESS

Within 12 months of an ECITB ICE qualification expiring, candidates can renew their ECITB ICE qualification through an ECITB Approved Training Provider.

***For security reasons candidates MUST apply for an ECITB ICE qualification through an ECITB Approved Training Provider.***

***Failure to renew within 12 months of an ECITB ICE qualification expiring could result in a candidate having to re-start the complete qualification process***

To revalidate an ECITB ICE qualification, candidates must pass an ECITB ICE Qualification Renewal Technical Test and hold a valid ECITB International Health and Safety Passport relevant to the ECITB ICE qualification with at least one year's validity left on it (with respect to the date that the ICE renewal fee is paid).

The revalidated ECITB ICE qualification will be awarded by the ECITB if the following conditions are met in full;

- **Candidate provides evidence to prove identity to an ECITB Approved Training Provider**
- **ECITB Approved Training Provider, validates candidates identity and photographs candidate**
- **Candidate has passed the prerequisite ECITB ICE Qualification Renewal Technical Test specified by the ECITB ICE qualification within TWELVE MONTHS OF THE ECITB ICE QUALIFICATION EXPIRING (with respect to the date that the ICE renewal fee is paid)**
- **The candidate is in possession of an ECITB International Health and Safety Passport at the appropriate level as determined by the ECITB ICE qualification, that has at least 1 year's validity left on it (with respect to the date that the ICE renewal fee is paid)**
- **The ECITB ICE qualification renewal fee is paid**

**ALL ECITB ICE QUALIFICATIONS ARE VALID FOR THREE YEARS**

## ECITB ICE Skill Specific Technical Tests (Level 2)

### International Design and Draughting

TIDD001	Produce read and extract technical information from engineering and construction drawings
TIDD002	Produce engineering and construction drawings to specified draughting conventions using a CAD system

### International Electrical Installation

TIEI 04	Installing Electrical Distribution Systems
TIEI 06	Installing Circuit Protective Devices
TIEI 13	Installing Earthing Equipment

### International Electrical Maintenance

TIEM 01	Inspecting and Testing Protective Devices
TIEM 03	Inspecting and Testing Electrical Hand Tools
TIEM 04	Inspecting and Testing Electrical Distribution Circuits
TIEM 08	Maintaining AC Electric Motors
TIEM 09	Maintaining DC Electric Motors

### International Instrument and Controls

TIIC 01	Calibrating and Function-Checking Pressure Measurement Systems
TIIC 03	Installing and Commissioning Flow Measurement Systems
TIIC 12	Isolating and Checking Fluid Powered Systems

### International Instrument Pipefitting

TIIPF 01	Developing Patterns
TIIPF 02	Fabricating & Installing Pipe Supports
TIIPF 06	Pipe Bending
TIIPF 10	Preparing Pipe Ends

### International Mechanical Fitting

TIMF 01	Measuring and Inspecting Mechanical Components
TIMF 02	Marking out Engineering Components
TIMF 03	Making and Fitting Mechanical Components

### International Mechanical Joint Integrity

TIMJI 01	Dismantling, Assembling and Hand Torquing Flanged Joints
TIMJI 02	Dismantling, Assembling and Hand Torquing Clamp Connectors

### International Mechanical Maintenance

TIMM 04	Maintaining Bearings and seals
TIMM 08	Maintaining Belt and Chain Drives
TIMM 09	Maintaining Shafts and Couplings

## **International Non-Critical Welding**

### Manual Metal Arc (MMA) / Shielded Metal Arc Welding (SMAW)

TINCMMA 01	Non-Critical MMA Plate Welding - 1G Butt (Square Edge)
TINCMMA 02	Non-Critical MMA Plate Welding – 1G Single V Butt Weld
TINCMMA 03	Non-Critical MMA Plate Welding – 1F Single-Sided Fillet Weld
TINCMMA 04	Non-Critical MMA Plate Welding – 2G Butt (Square Edge)
TINCMMA 05	Non-Critical MMA Plate Welding – 2G Single V Butt Weld
TINCMMA 06	Non-Critical MMA Plate Welding – 2F Single-Sided Fillet Weld
TINCMMA 07	Non-Critical MMA Pipe Welding – 1G Single V Butt Weld

### Metal Inert Gas (MIG) / Gas Metal Arc Welding (GMAW)

TINCMIG 01	Non-Critical MIG Plate Welding - 1G Butt (Square Edge)
TINCMIG 02	Non-Critical MIG Plate Welding – 1G Single V Butt Weld
TINCMIG 03	Non-Critical MIG Plate Welding – 1F Single-Sided Fillet Weld
TINCMIG 04	Non-Critical MIG Plate Welding – 2G Butt (Square Edge)
TINCMIG 05	Non-Critical MIG Plate Welding – 2G Single V Butt Weld
TINCMIG 06	Non-Critical MIG Plate Welding – 2F Single-Sided Fillet Weld
TINCMIG 07	Non-Critical MIG Pipe Welding – 1G Single V Butt Weld

### Tungsten Inert Gas (TIG) / Gas Tungsten Arc Welding (GTAW)

TINCTIG 01	Non-Critical TIG Plate Welding - 1G Butt (Square Edge)
TINCTIG 02	Non-Critical TIG Plate Welding – 1G Single V Butt Weld
TINCTIG 03	Non-Critical TIG Plate Welding – 1F Single-Sided Fillet Weld
TINCTIG 04	Non-Critical TIG Plate Welding – 2G Butt (Square Edge)
TINCTIG 05	Non-Critical TIG Plate Welding – 2G Single V Butt Weld
TINCTIG 06	Non-Critical TIG Plate Welding – 2F Single-Sided Fillet Weld
TINCTIG 07	Non-Critical TIG Pipe Welding – 1G Single V Butt Weld

## **International Non Destructive Testing**

TINDT 05	Examining Welded Joints Using the Visual Inspection Method
TINDT 06	Determining NDT Requirements

## **International Small Bore Tubing**

TISBT 02	Disassembling and Reinstalling Small Bore Tubing Assemblies
----------	---

## **International Supporting Engineering - Construction Activities**

TISECA 01	Marking Out to Required Specification
TISECA 02	Interpreting Engineering Drawings
TISECA 03	Shaping Engineering Components Using Hand Tools
TISECA 04	Joining Materials by Tack Welding

## **International Steel Erecting**

TISE 01	Slinging and Lifting Engineering Loads
TISE 02	Rigging & Working with Lifting Equipment
TISE 03	Erecting Steelwork Structures
TISE 04	Erecting Pre-formed Plate

### **International Pipefitting**

TIPF 01	Setting Out Pipework and Marking Out
TIPF 03	Preparing Pipe Ends using Portable Edge Preparation Machines
TIPF 11	Preparing and Assembling Screwed Pipework

### **International Plating**

TIPL 01	Marking out plate, structural steelwork and pipework
TIPL 02	Developing patterns for platework
TIPL 05	Forming Plate by Rolling

### **International Rigging**

TIRIG 01	Moving Engineering Loads by Manual Operation
TIRIG 02	Lifting and Slings Engineering - Construction Materials Safely
TIRIG 03	Lifting and Cross Hauling Engineering - Construction Materials Safely

### **International Welding Preparation (Pipe)**

TIWPP 01	Preparing & Setting Up MIG Butt Welds in Carbon and low Alloy
TIWPP 02	Preparing & Setting Up MMA Butt Welds in Carbon and Low Alloy
TIWPP 03	Preparing & Setting Up TIG Butt Welds in Carbon Steel Pipe

### **International Welding Preparation (Plate)**

TIWPL 02	Setting Up MIG Butt Welds in Carbon and low Alloy Steel plate
TIWPL 03	Preparing & Setting Up MMA Butt Welds in Carbon and Low Alloy Steel plate
TIWPL 04	Setting Up TIG Butt Welds in Carbon and Low Alloy Steel Plate

## ECITB ICE Skill Specific Advanced Technical Tests (Level 3)

### International Design and Draughting

TIDD 03	Producing detailed engineering and construction drawings to specified draughting conventions
TIDD 04	Developing and evaluating engineering and construction design options
TIDD 05	Completing engineering and construction designs

### International Electrical Installation

TIEI 01	Installing Emergency Lighting
TIEI 02	Installing Transformers
TIEI 03	Installing Alarm Systems
TIEI 05	Installing Battery and UPS Systems
TIEI 07	Installing Generator Switchgear
TIEI 08	Connecting and Testing AC electrical motors
TIEI 09	Connecting and Testing DC electrical motors
TIEI 10	Installing Lighting Equipment
TIEI 11	Installing HVAC Equipment Controls
TIEI 12	Connecting and Testing HV Equipment

### International Electrical Maintenance

TIEM 02	Maintaining Transformers
TIEM 05	Inspecting Battery and UPS Systems
TIEM 06	Maintaining Circuit Protection Devices
TIEM 07	Maintaining Generators
TIEM 10	Inspecting and Testing Lighting Equipment
TIEM 11	Inspecting and Testing HVAC Equipment
TIEM 12	Maintaining HV Equipment

### International Instrument and Controls

TIIC 02	Calibrating and Function-Checking Level Measurement Systems
TIIC 04	Calibrating and Function-Checking Temperature Measurement Systems
TIIC 05	Installing and Commissioning Fire & Gas Detection Systems
TIIC 06	Maintaining Process System Control Valve Assemblies
TIIC 07	Maintaining Pneumatic Process Controllers
TIIC 08	Reconfiguring Programmable Logic Control Systems
TIIC 09	Identifying and Dealing with Faults in Distributed Control Systems
TIIC 10	Calibrating and Function-Checking Fiscal Metering Systems
TIIC 11	Installing and Commissioning Analysers
TIIC 13	Inspecting Protection Methods for Instruments in Hazardous Areas

### International Instrument Pipefitting

TIIPF 03	Fabricating Pipe Branches and Bends
TIIPF 04	Installing Pipework Systems
TIIPF 05	Installing Steam Tracing
TIIPF 07	Preparing and Assembling Non-Ferrous Pipe
TIIPF 08	Preparing and Assembling Non-Metallic Pipe
TIIPF 09	Preparing & Testing Pipework Systems

### **International Mechanical Fitting**

TIMF 04	Assembling Mechanical Components
TIMF 05	Preparing for Installation
TIMF 06	Positioning Plant and Equipment
TIMF 07	Aligning, Levelling and Setting Plant and Equipment
TIMF 08	Installing Drive Systems
TIMF 09	Repairing Faults and Adjusting Mechanical Plant and Equipment
TIMF 10	Diagnosing Faults and Adjusting Live Mechanical Plant and Equipment
TIMF 11	Preparing and Assembling Small Bore Pipework

### **International Mechanical Joint Integrity**

TIMJI 03	Dismantling, Assembling and Tensioning Bolted Connections (Hydraulic Tensioning)
TIMJI 04	Dismantling, Assembling and Hydraulically Torquing Flanged Joints
TIMJI 05	Dismantling, Assembling and Hydraulically Torquing Clamp Connector Joints

### **International Mechanical Maintenance**

TIMM 01	Maintaining Hydraulic Systems
TIMM 02	Maintaining Pneumatic Systems
TIMM 03	Maintaining Compressed Air Systems
TIMM 05	Maintaining Pumps
TIMM 06	Maintaining Geared Mechanisms
TIMM 07	Maintaining Mechanical Actuating Mechanisms
TIMM 10	Maintaining Clutches
TIMM 11	Maintaining Brake Systems
TIMM 12	Maintaining Valves
TIMM 13	Maintaining Diesel Engines
TIMM 14	Maintaining HVAC Systems
TIMM 15	Diagnosing Mechanical Faults in Explosive Atmospheres

### **International Non-Critical Welding**

#### Manual Metal Arc (MMA) / Shielded Metal Arc Welding (SMAW)

TINCMMA 08	Non-Critical MMA Plate Welding - 3G Single V Butt Weld
TINCMMA 09	Non-Critical MMA Plate Welding – 3F Single-Sided Fillet Weld
TINCMMA 10	Non-Critical MMA Pipe Welding – 2G Single V Butt Weld

#### Metal Inert Gas (MIG) / Gas Metal Arc Welding (GMAW)

TINCMIG 08	Non-Critical MIG Plate Welding - 3G Single V Butt Weld
TINCMIG 09	Non-Critical MIG Plate Welding – 3F Single-Sided Fillet Weld
TINCMIG 10	Non-Critical MIG Pipe Welding – 2G Single V Butt Weld

#### Tungsten Inert Gas (TIG) / Gas Tungsten Arc Welding (GTAW)

TINCTIG 08	Non-Critical TIG Plate Welding - 3G Butt (Square Edge)
TINCTIG 09	Non-Critical TIG Plate Welding – 3G Single V Butt Weld
TINCTIG 10	Non-Critical TIG Plate Welding – 3F Single-Sided Fillet Weld
TINCTIG 11	Non-Critical TIG Pipe Welding – 2G Single V Butt Weld

#### Combination TIG/GTAW & MMA/SMAW

TINCT/MMA 01	Non-Critical TIG/MMA Pipe Welding - 1G Single V Butt Weld
TINCT/MMA 02	Non-Critical TIG/MMA Pipe Welding – 2G Single V Butt Weld

### **International Non Destructive Testing**

TINDT 01	Examining Welded Joints Using the Magnetic Particle Method
TINDT 02	Examining Welded Joints Using the Liquid Penetrant Method
TINDT 03	Examining Welded Joints Using the Eddy Current Method
TINDT 04	Examining Welded Joints Using the Ultrasonic Method

### **International Pipefitting**

TIPF 02	Developing Patterns for Pipework
TIPF 04	Pipe Bending
TIPF 05	Preparing and Assembling Welded Pipework
TIPF 06	Preparing and Assembling Non-metallic Pipework
TIPF 07	Preparing and Bonding GRP Pipework
TIPF 08	Fabricating and Installing Pipework Supports
TIPF 09	Installing Pipework Systems
TIPF 10	Preparing and Testing Pipework Systems
TIPF 12	Preparing and Assembling Small Bore Non-Ferrous Pipework

### **International Plating**

TIPL 03	Setting out platework and structural steelwork
TIPL 04	Making templates for structural steelwork
TIPL 06	Preparing plate edges using portable edge preparation machines
TIPL 07	Assembling platework

### **International Rigging**

TIRIG 04	Rigging and Moving Complex Engineering - Construction Materials Safely
TIRIG 05	Rigging, Rotating and Upending Complex Engineering - Construction Materials Safely
TIRIG 06	Lifting, Cross Hauling, and Installing Vessels in Restricted Access Areas
TIRIG 07	Planning a Rigging Operation

### **International Small Bore Tubing**

TISBT 01	Installing and Assembling SBT Assemblies
TISBT 03	Assembling and Installing SBT Assemblies - Coned and Threaded

### **International Welding Preparation (Pipe)**

TIWPP 04	Preparing & Setting Up MMA Butt Welds in Stainless Steel Pipe
TIWPP 05	Preparing & Setting Up TIG Butt Welds in Stainless Steel Pipe
TIWPP 06	Preparing & Setting Up MMA Butt Welds with TIG Root in Carbon Low Alloy Steel pipe
TIWPP 07	Preparing & Setting Up MMA Butt Welds with TIG Root in Stainless Steel pipe
TIWPP 08	Preparing & Setting Up TIG Butt Welds in Aluminium Alloy Pipe
TIWPP 09	Preparing & Setting Up TIG Butt Welds in Nickel and Nickel Alloy Pipe
TIWPP 10	Preparing & Setting Up Flux-Cored Butt Welds in Carbon and Low Alloy Steel Pipe

## **International Welding Preparation (Plate)**

TIWPL 01	Preparing & Setting Up Flux-Cored Butt Welds in Carbon and Low Alloy Steel plate
TIWPL 05	Preparing & Setting Up Flux-Cored Butt Butt Welds in Stainless Steel plate
TIWPL 06	Preparing & Setting Up MIG Butt Welds in Stainless Steel plate
TIWPL 07	Preparing & Setting Up MMA Butt Welds in Stainless Steel plate
TIWPL 08	Preparing & Setting Up TIG Butt Welds in Stainless Steel plate
TIWPL 09	Preparing & Setting Up MIG Butt Welds in Nickel and Nickel Alloy plate
TIWPL 10	Preparing & Setting Up TIG Butt Welds in Aluminium Alloy plate
TIWPL 11	Preparing & Setting Up MIG Butt Welds in Aluminium and Aluminium Alloy plate
TIWPL 12	Preparing & Setting Up TIG Butt Welds in Nickel and Nickel Alloy plate
TIWPL 13	Preparing & Setting Up MMA Butt Welds in Nickel and Nickel Alloy plate
TIWPL 14	Preparing & Setting Up MMA Butt Welds with TIG Root in Carbon Low Alloy Steel Plate
TIWPL 15	Preparing & Setting Up MMA Butt Welds with TIG Root in Nickel and Nickel Alloy plate

## **Renewal**

The ICE renewal process assures a candidate's knowledge, skills and ability are maintained in line with evolving processes and technical requirements.

The renewal process requires each candidate already holding a valid ICE qualification to successfully complete an ECITB ICE Renewal Technical Test every 3 years.



## 6 THE SYSTEM OF ASSESSMENT

The following tables summarise the roles that key members perform in quality assuring the ICE regulated qualifications system.

Who's who	What is their role?
<p><b>Candidates</b> Individuals seeking validation for their Competence</p>	<p>Show they can perform to the ECITB ICE Technical Training Standards in order to be awarded Certificates of Technical Competence in the ECITB Technical Tests required. Has successfully completed the ECITB IHSP course relevant to the ICE qualification being applied for. Provides evidence to prove identity at each stage of the process.</p>
<p><b>Examiners</b> Appointed by an ECITB Approved Training Provider to test a candidate's performance against the Technical Training Standards using the relevant Knowledge and Practical ECITB Technical Tests</p>	<ul style="list-style-type: none"> <li>• Judge candidates' performance against the ECITB Technical Training Standards</li> <li>• <a href="#">Administer the necessary online Knowledge Test</a></li> <li>• <a href="#">Administer the necessary Practical Test</a></li> <li>• Provide candidates with feedback on completion of the tests</li> <li>• Complete the necessary documentation ensuring all results are processed accurately and timeously</li> <li>• VALIDATES THE IDENTITY OF THE CANDIDATE</li> </ul>
<p><b>Centre Co-ordinators</b></p>	<ul style="list-style-type: none"> <li>• Act as a point of contact for the Approved Provider</li> <li>• Ensure accurate records are maintained and submitted as necessary</li> <li>• Request certificates from ECITB</li> </ul>
<p><b>ECITB Approved Training Provider</b> Organisation approved by ECITB to train and test to Technical Training Standards relating to ICE qualification.</p>	<ul style="list-style-type: none"> <li>• Manage training and testing on a day-to-day basis.</li> <li>• Have effective training and testing practices and procedures.</li> <li>• Meet ECITB requirements for delivery of ECITB approved training and testing</li> <li>• Have sufficient competent Tutors and Examiners with enough time and authority to carry out their roles effectively</li> <li>• Responsible for validating identity of candidate</li> <li>• Responsible for submitting an ICE application through to the ECITB for assessment</li> </ul>

# Assessment of candidates with particular assessment requirements

Equal Opportunities, Reasonable Adjustments and Special Considerations.

## Access to Fair Assessment

The ECITB only uses Approved Training Providers (ATPs) to deliver ECITB Technical Training and ECITB Technical Tests.

Only competent approved Examiners will be used within the ECITB Technical Testing system.

ECITB Technical Test will ONLY be delivered in facilities that are strictly controlled using ECITB Approved Standard Operating Procedures.

The ECITB requires ATPs to demonstrate a clear commitment for access to fair assessment, equal opportunities, reasonable adjustments and special considerations and to operate a Fair Assessment Policy in all matters concerning the assessment of candidates for the award of ECITB Certificates of Achievement and ECITB ICE qualifications.

In any appeal against ATP decisions, the ATP must take account of full current legislation in the area of access to fair assessment and equal opportunities and must ensure that the following issues are controlled and taken into consideration at all times;

- Racial Discrimination
- Disability Discrimination
- Special Educational Needs and Disability.
- Human Rights

The ATP must ensure that relevant staff in the assessment team receives training in the relevant sections of current legislation and that sufficient and appropriate information with regard to the content of this issue is passed to all members of the ATP team.

## Arrangements for candidates with particular assessment requirements

### Principles

ATPs must ensure that there are no unnecessary barriers to assessment, which prevent candidates from effectively demonstrating their attainment. Arrangements for candidates with particular assessment requirements (special arrangements) must also ensure that such candidates are not given, or do not appear to be given, an unfair advantage. Special arrangements are generally not appropriate where the candidate's particular difficulty directly affects performance in the actual attributes that are the focus of assessment.

ATPs must make special arrangements according to the needs of the individual candidate, reflecting the candidate's usual method of working, the assessment requirements as set out in the specification and any guidelines set down by the regulatory authorities. Any special arrangements must ensure that the validity, reliability and integrity of the assessment are preserved and that certificates accurately reflect candidate attainment.

ATPs are only required to do what is 'reasonable' in terms of giving access. What is reasonable will depend on the individual circumstances, cost implications and the practicality and effectiveness of the adjustment.

There are two ways in which access to fair assessment can be maintained

- 1 Through reasonable adjustments.
- 2 Through special consideration.

### Reasonable Adjustments

A reasonable adjustment is any action that helps to reduce the effect of a disability that places the candidate at a substantial disadvantage in the assessment situation.

Reasonable adjustments must not affect the integrity of what needs to be assessed, but may involve:

- Changing standard assessment arrangements, for example allowing candidates extra time to complete the assessment activity.
- Adapting assessment materials, such as providing materials in Braille.
- Providing access facilitators during assessment, such as a sign language interpreter or a reader.
- Re-organising the assessment room, such as removing visual stimuli for an autistic candidate.

## **Special Consideration**

Special consideration is given following an assessment to candidates who are present for the assessment but may have been disadvantaged by temporary illness, injury or adverse circumstances, which arose at or near the time of assessment.

Special consideration should not give the candidate an unfair advantage neither should its use cause the user of the certificate to be misled regarding a candidate's achievements. The candidate's result must reflect his or her achievement in the assessment and not necessarily his or her potential ability.

ATPs must make provision for special consideration to ensure that candidates who suffer temporary illness, injury or indisposition at the time of assessment are treated fairly. Such assessment should be made available to the candidate as soon as is reasonably practical within the guidelines of access to fair assessment. Where this is not possible, the awarding organisation will consider each individual case for special consideration, identifying the minimum requirements for an award to be made.



Engineering Construction Industry Training Board