

MAINTENANCE AND ENGINEERING | COURSE BROCHURE

Welding Procedure Qualification

5 days | Classroom training | English

SMART HORIZON

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London W2 6BD, United Kingdom

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Course content

Why attend

Welding procedures and welder qualifications ensure welds meet required strength and quality. This course explains welding procedure specifications, procedure qualification records, essential variables, testing requirements, welder performance qualification, applicable codes and managing welding documentation on projects.

Unqualified procedures lead to rejected welds and failures. You will learn how qualification works and how to manage it.

Professional Problems This Course Is Designed to Solve

• Difficulty translating subject knowledge into practical workplace decisions.
• Inconsistent approaches to the activities covered in the course outline.
• Lack of a structured plan for applying and reviewing new skills.

Course methodology

Code walkthroughs, WPS and PQR review exercises, case studies and documentation workshops.

Course objectives

By the end of this course, participants will be able to:
• Explain the purpose of welding procedure qualification
• Read and prepare welding procedure specifications
• Understand procedure qualification records and tests
• Identify essential and non-essential variables
• Manage welder performance qualification
• Control welding documentation on projects

Target audience

This course is suitable for:
• Welding engineers and inspectors
• Quality engineers
• Fabrication supervisors
• Project engineers
• Maintenance engineers



Course content

Target competencies

Participants will develop competencies in:

- Code interpretation
- Procedure development
- Testing requirements
- Qualification management
- Documentation

Course outline

Day 1: Welding Qualification

09:00–10:08	Why qualify procedures
10:08–11:00	Codes and standards
11:00–11:30	**Coffee break**
11:30–11:45	Codes and standards (continued)
11:45–12:53	Roles
12:53–14:00	Exercise

Day 2: WPS

09:00–10:08	WPS content
10:08–11:00	Process parameters
11:00–11:30	**Coffee break**
11:30–11:45	Process parameters (continued)
11:45–12:53	Preparation
12:53–14:00	Workshop

Day 3: PQR and Testing

09:00–10:08	Test coupons
10:08–11:00	Mechanical tests
11:00–11:30	**Coffee break**



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11:30–11:45	Mechanical tests (continued)
11:45–12:53	Non-destructive tests
12:53–14:00	Exercise

Day 4: Variables

09:00–10:08	Essential variables
10:08–11:00	Supplementary variables
11:00–11:30	**Coffee break**
11:30–11:45	Supplementary variables (continued)
11:45–12:53	Requalification
12:53–14:00	Case study

Day 5: Welder Qualification

09:00–10:08	Performance tests
10:08–11:00	Continuity
11:00–11:30	**Coffee break**
11:30–11:45	Continuity (continued)
11:45–12:53	Records
12:53–14:00	Action plan

The timings provided are estimates and may vary depending on the number of participants and the discussions taking place during the sessions. They are indicative only and do not constitute a binding commitment.



Course content

Dates, venues and fees

Current published course plans. Fees are per participant in GBP, excluding unconfirmed taxes.

Venue	Start date	End date	Fee (GBP)
Istanbul Confirmed dates	16 Nov 2026	20 Nov 2026	**£5,300.–**
Online Confirmed dates	16 Nov 2026	20 Nov 2026	**£1,250.–**
Rome Confirmed dates	7 Dec 2026	11 Dec 2026	**£4,900.–**
Online Confirmed dates	7 Dec 2026	11 Dec 2026	**£1,250.–**
Amsterdam Confirmed dates	11 Jan 2027	15 Jan 2027	**£5,080.–**
Online Confirmed dates	11 Jan 2027	15 Jan 2027	**£1,250.–**
Barcelona Confirmed dates	1 Feb 2027	5 Feb 2027	**£5,680.–**
Online Confirmed dates	1 Feb 2027	5 Feb 2027	**£1,250.–**
Dubai Confirmed dates	15 Feb 2027	19 Feb 2027	**£6,300.–**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Online Confirmed dates	15 Feb 2027	19 Feb 2027	**£1,250.–**
Rome Confirmed dates	8 Mar 2027	12 Mar 2027	**£4,900.–**
Online Confirmed dates	8 Mar 2027	12 Mar 2027	**£1,250.–**
Frankfurt Confirmed dates	29 Mar 2027	2 Apr 2027	**£5,300.–**
Online Confirmed dates	29 Mar 2027	2 Apr 2027	**£1,250.–**
Vienna Confirmed dates	19 Apr 2027	23 Apr 2027	**£5,880.–**
Online Confirmed dates	19 Apr 2027	23 Apr 2027	**£1,250.–**
Rome Confirmed dates	10 May 2027	14 May 2027	**£4,900.–**
Online Confirmed dates	10 May 2027	14 May 2027	**£1,250.–**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Paris Confirmed dates	24 May 2027	28 May 2027	**£5,720.-**
Online Confirmed dates	24 May 2027	28 May 2027	**£1,250.-**
Cape Town Confirmed dates	14 Jun 2027	18 Jun 2027	**£3,780.-**
Online Confirmed dates	14 Jun 2027	18 Jun 2027	**£1,250.-**
Vienna Confirmed dates	5 Jul 2027	9 Jul 2027	**£5,880.-**
Online Confirmed dates	5 Jul 2027	9 Jul 2027	**£1,250.-**
Barcelona Confirmed dates	26 Jul 2027	30 Jul 2027	**£5,680.-**
Online Confirmed dates	26 Jul 2027	30 Jul 2027	**£1,250.-**
Kuala Lumpur Confirmed dates	16 Aug 2027	20 Aug 2027	**£2,900.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Online Confirmed dates	16 Aug 2027	20 Aug 2027	**£1,250.-**
Dubai Confirmed dates	30 Aug 2027	3 Sept 2027	**£6,300.-**
Online Confirmed dates	30 Aug 2027	3 Sept 2027	**£1,250.-**
Cape Town Confirmed dates	20 Sept 2027	24 Sept 2027	**£3,780.-**
Online Confirmed dates	20 Sept 2027	24 Sept 2027	**£1,250.-**
London Confirmed dates	11 Oct 2027	15 Oct 2027	**£4,900.-**
Online Confirmed dates	11 Oct 2027	15 Oct 2027	**£1,250.-**
Cape Town Confirmed dates	1 Nov 2027	5 Nov 2027	**£3,780.-**
Online Confirmed dates	1 Nov 2027	5 Nov 2027	**£1,250.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Dubai Confirmed dates	22 Nov 2027	26 Nov 2027	**£6,300.-**
Online Confirmed dates	22 Nov 2027	26 Nov 2027	**£1,250.-**
London Confirmed dates	6 Dec 2027	10 Dec 2027	**£4,900.-**
Online Confirmed dates	6 Dec 2027	10 Dec 2027	**£1,250.-**

Plan your next step

Dates, availability, exact venue, taxes, inclusions and payment terms require written confirmation. This brochure is not a quotation, registration, booking confirmation or visa invitation. Participants receive a Smart Horizon UK certificate of attendance; programmes are not externally accredited and do not award a professional qualification or designation. Confirm arrangements before booking travel.

For group or in-house training, contact our learning team to discuss your objectives and delivery arrangements.

Contact Smart Horizon

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View the latest course details online