

Creating education, training, skills and careers opportunities to improve a country's National Welding Capability (NWC)

24, 26, 27 November 2025

Webinar – NOW AVAILABLE – Register below



Mr Chris Smallbone

Both the International Institute of Welding (IIW) and WIN embrace collective national and international action, cooperating and collaborating, where possible, to apply solutions to national and global challenges particularly to improve people's lives. The release of IIW NWC GN 5 Establishing a National Welding Capability (NWC)-NWC Guidance Note GN 5 Implementing the 'Education, Training, Skills and Careers' Building Block, published on 20th June 2025 and available for free download, opens up new ideas, models and

opportunities for individuals, companies, training organisations and governments to be successful in improving their NWC. <https://iiwelding.org/iiw-jointothefuture/nwc-gn/>

Links for registration for this Webinar are given later in this brochure on page 4.

This presentation is brought to you by:

Mr Chris Smallbone

IIW Fellow, IIW President 2005-2008

Author IIW NWC GN 5



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Contacts at each organisation for more detailed discussion on this Webinar:

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Daniela Torelli • CWB Association • email: Daniela.Torelli@cwbgroupp.org • Americas
Confidence Lekoane • SAIW • email: confidence.lekoane@saiw.co.za • Africa and Europe
R. Srinivasan • IIW-India • email: iiwmum01@gmail.com • SAARC and Middle East
Chris Smallbone • Presenter • email: allbones@iinet.net.au

Creating education, training, skills and careers opportunities to improve a country's National Welding Capability (NWC)

Presenter: Mr Chris Smallbone

Chris Smallbone trained as a student apprentice at English Electric Company in Liverpool, UK, from 1964-69, qualifying as a mechanical engineer from the Staffordshire College of Advanced Technology (now Staffordshire University) and obtained an MSc in Welding Technology from the University of Aston (1969-1970). He then worked in the fabrication industry in Bolton as a Junior Executive including training welding apprentices and welding technicians at Bolton Technical College in the evenings.

From 1974 to 1979, he was Senior Lecturer in Mechanical Engineering at the now Technikon Witwatersrand in Johannesburg responsible for establishing, implementing and training the first formal education groups of welding technologists and technicians in South Africa as well as lecturing at the University of Witwatersrand on various degree courses.

Chris has been at the forefront of many unique and pioneering major innovations, including as Executive Director, building up two world class national welding Institutes, South African Institute of Welding (SAIW) (1980-1993) and Welding Technology Institute of Australia (WTIA) (1995-2014).

Besides his work in R&D and technology transfer, he also voluntarily established and built up, in conjunction with other groups, a number of other outstanding world class not-for-profit organisations to meet particular needs of industry in skills development, NDT and pressure equipment Q and C, in South Africa and Australia. As President, he led the South Africa delegation and team with Nigel Fitton, Executive Director, Skills SA Foundation, to the International Skills Olympics in Taiwan in 1993.

He also established from scratch, the SAIW Schools of Welding Technology and NDT, including the education, training, qualification and certification programmes for welders, welding supervisors, technologists, engineers, inspection personnel, designers, NDT personnel and others, as well as lecturing on many of them.

In Australia, the establishment and operation of the WTIA IIW ANB and IIW ANBCC, IIW Approved Training Bodies (ATBs), a national network of approved WTIA training centres and the WTIA OzWeld School of Welding Technology were all very successful. He chaired the Australian Government Heavy Engineering and Infrastructure Action Agenda (HEIAA), Focus Group on Education, Training, Innovation, Technology Transfer and Research and Development.

In IIW, he has played pivotal roles over the past 45 years including major accomplishments and technical impacts across many fronts including being IIW President (2005-2008) as well as being extensively involved in leading various IIW E, T, Q and C groups from 1992 to 2017.

This presentation will give particular attention to the following aspects of IIW NWC GN 5 using examples of past experiences, best practices, guidance documents, sources of information, strategies and action plans to create the NWC Building Blocks for Education, Training, Qualification and Certification (E, T, Q and C), Skills and Careers.

- * **creating a model** to implement the E, T, Q, C, Skills and Careers Building Blocks of an NWC in a country.
- * the **benefits and value** of the welding related industries to a nation's economy.
- * the **Plan-on-a-Page** approach to E, T, Q and C, Skills and Careers.
- * **analyses of industry's needs** in terms of welding related personnel and companies.
- * **Industry Sectoral Project (ISP)** approaches including establishing sector demands.
- * creation of **formal networks** of competent education, training and careers providers.
- * strategies to obtain **local and international funding support**.
- * E, T, Q and C for the full **Welding Coordination Team (WCT)** in line with **ISO 14731** and **ISO 3834**.
- * understanding of the existing **E, T, Q and C infrastructure** in place in the country.
- * **a situation analysis** of all education, training, qualification and certification centres including how they would meet future directions including technology transfer.
- * **upgrading of resources** including trainers, educational materials, facilities and equipment.
- * the **ideal practical welding training centre**.
- * **promotion of careers and image of welding** including success stories.
- * establishment of a not-for-profit organisation as an **IIW ANB and IIW ANBCC** in a country.
- * **personnel trained, qualified and/or certified** as welding engineers, technologists, designers, researchers, specialists, practitioners, supervisors, welders, apprentices and inspectors including bolting, pressure equipment and NDT.

WHERE and WHEN:

The WEBINAR will be of one and a half hours duration including half an hour for questions and discussion. It will be held on three separate occasions to accommodate the different regions of the globe: The Americas; Africa and Europe; Indian sub-continent, Middle East, Asia and Australasia.

WHO SHOULD ATTEND?

Personnel of all types and at all levels with an interest in manufacturing, fabrication, construction, maintenance, standards, regulatory, education, training, and research organisations related to welding are welcome to attend. Delegates are welcome to bring along their questions to contribute to discussions and positive outcomes.

WHAT INDUSTRY SECTORS IS THE WEBINAR RELEVANT FOR?

All welding-related industry and educational sectors will benefit from involvement in the webinar.

IIW's and WIN's Support in Education, Training, Qualification, Certification, Skills and Careers

IIW is an ISO accredited standards making body. <https://iiwelding.org/iiw-standardization-and-best-practices/> and WIN members are involved in standards development in their own countries.

IIW International Authorisation Board (IAB) has the only globally established education, training, qualification and certification system in any discipline or technology in the world. It has operated in 47 countries including WIN countries. <https://iiwelding.org/iiw-qualification-and-certification-of-personnel/>

IIW International Authorisation Board (IAB) has a global ISO 3834 certification programme for companies. <https://iiwelding.org/iiw-iso-3834/>

IIW has 53 Member Countries and a strong track record including regional activities and environmental issues as shown in the IIW History Book linking people, joining nations. https://iiwelding.org/wp-content/uploads/iiw_documents/IIW-History-1990-2015.pdf

IIW and WIN members have had very good working relationships with various international and national aid/donor agencies over many decades. Some examples are given in the abovementioned IIW History Book and in the IIW NWC-SDGs Report.

IIW and WIN have a tremendous network of people

and organisations locally and globally to assist in knowledge and technology transfer including the IIW White Paper. This was published in 2012.

<https://iiwelding.org/wp-content/uploads/2023/08/IIW-White-Paper-first-Edition.pdf>

IIW on a similar basis to other international organisations such as ISO, IEC, World Federation of Engineering Associations, supports the UN Sustainable Development Goals (SDGs). <https://iiwelding.org/iiw-jointothefuture/iiw-and-sustainable-development/>

Free reports are available from IIW on NWC-SDG relationships for Brazil, Ghana, India, New Zealand, Nigeria, Romania, and South Africa.

A free three hour virtual workshop on implementing an NWC or IIW NWC GN 5 for a country can be arranged. email Chris Smallbone allbones@iinet.net.au

IIW Questionnaire: 20 questions on helping solve a skills shortage through lifelong learning opportunities, Chris Smallbone, Chairman IIW Task Group, TG-SDG, IIW National Welding Capability (NWC) Resource Centre Document Number IIW NWC-0013-2024. <https://iiwelding.org/iiw-jointothefuture/nwc-gn/>



CWB Foundation Educator Training Programme



Training of four Tanzanian welders as instructors at SAIW

SAIW South Africa (Africa and Europe regions)

COURSE PART	COURSE DATE	LOCATION / TIME ZONE / STARTING TIME
1	Monday, 24 November 2025	South Africa 12:00-13:30 Nigeria 11:00-12:30 London... .. 10:00-11:30 Istanbul 13:00-14:30

- Registration Link:**

<https://www.saiw.co.za/win-webinar-creating-education-training-skills-and-careers-opportunities-to-improve-a-countrys-national-welding-capability-nwc-24-november-2025/>

[CLICK HERE TO REGISTER](#)

IIW-India (Sub-continent plus Middle East, Australasia and Asia regions)

COURSE PART	COURSE DATE	LOCATION / TIME ZONE / STARTING TIME
1	Wednesday, 26 November 2025	India & Sri Lanka 12:00-13:30 Bangladesh 12:30-14:00 Saudi Arabia, Kuwait, Bahrain 09:30-11:00 UAE-Dubai, Sharjah, Abu Dhabi, Oma... .. 10:30-12:00 Singapore, Perth, Shanghai 14:30-16:00 Sydney... .. 17:30-19:00 Auckland. 19:30-21:00

- Registration Link:**

<https://tinyurl.com/2d6zepz5>

[CLICK HERE TO REGISTER](#)

CWB Group Canada (Americas North and South)

COURSE PART	COURSE DATE	LOCATION / TIME ZONE / STARTING TIME
1	Thursday, 27 November 2025	Toronto 12:00-13:30 (EST) West Coast Canada and USA 09:00-10:30 (PST) Atlantic Canada and USA... .. 13:00-14:30 (AST) Sao Paulo Brazil 14:00-15:30 (BRT) Santiago Chile 14:00-15:30 (CLST)

- Registration Link:**

<https://www.eventbrite.ca/e/opportunities-to-improve-a-countrys-national-welding-capability-nwc-tickets-1857879851649?aff=oddtcreator>

[CLICK HERE TO REGISTER](#)

Register Today – To register, follow the registration links above.

Cost – The webinar is free to all applicable areas. Membership may be required.

Cancellations – *Please note:* The organisers reserve the right to cancel the webinars due to insufficient registrations or other reasons beyond their control, as well as altering the programme if they deem it necessary. The organisers also have the right to refuse registrations.

Stay tuned for future webinars and courses by WIN!!