

TVET SKILLS FOR RENEWABLE ENERGY AND GREEN HYDROGEN IN NAMIBIA

Annexure 12: Consolidated Stakeholder-List

Implemented by

CONTENTS

1. Government Bodies & Regulatory Authorities.	1
2. Training Providers (Public, Private and Community Based).	4
3. Higher Education Institutions	9
4. Private Sector	10
5. Certification Bodies.	13
A. International Certification Bodies.	13
B. Regional / South African Certification & Qualification Authorities	14
C. Namibian or Local Industry-Based Certification & Testing Providers	14
6. Utility	16
7. Regional Training Institution	17

1

GOVERNMENT BODIES & REGULATORY AUTHORITIES

Stakeholder Name	Role	Engaged and/or mentioned in the following reports
City of Windhoek (CoW)	- Operates the Emergency and Disaster Risk Management (EDRM) Training Centre, main national firefighting training provider. - Provides accredited fire and rescue courses (Firefighter I–IV, Hazmat, Rescue, etc.), aligned with NFPA standards and registered by NTA. - Seeks international accreditation (IFSAC/SAESI) and facility upgrades to include hydrogen-specific firefighting training.	Annexure 11: Firefighting
Electricity Control Board (ECB)	- National electricity regulator, responsible for licensing, compliance monitoring, and enforcing the Namibia Electricity Safety Code (NESC). - Issues Certificates of Compliance (CoCs) for electrical installations and authorises inspection authorities. - Ensures safety code harmonisation and regulatory oversight for electrical and hydrogen-related installations.	- Annexure 1: Electrical Engineering - Annexure 10: OHS
Ministry of Agriculture, Water, Fisheries and Land Reform (MAWFLR)	- Oversees water resource allocation and quality, operates borehole-based RO units, and aligns water supply with GH₂/ desalination needs. - Coordinates standards and regulations (with NSI/DIN) for hydrogen-ready piping and plumbing infrastructure.	- Annexure 06: Water Treatment and Desalination - Annexure 7: Plumbing and Pipefitting
Ministry of Education, Innovation, Youth, Sport, Arts and Culture (MEIYSAC)	- It is the line ministry responsible for education and training policy in Namibia. - It oversees general education, technical and vocational training and higher education. - It has a statutory role in coordinating with NTA, NQA, NCHE, universities, and VTCs.	Referenced in all annexes (1–11)
Ministry of Environment, Forestry and Tourism (MEFT)	National authority for environmental regulation, ensuring GH₂ and RE projects comply with environmental protection and sustainability standards.	- Annexure 2: Solar Equipment Installation and Maintenance - Annexure 10: OHS

Ministry of Health and Social Services (MHSS)	- National authority for public health regulation, responsible for embedding health and safety standards (e.g. First Aid) into OHS frameworks. - Acts as a regulator and coordinator in the national OHS and firefighting training ecosystem, ensuring compliance with health standards. - Provides oversight for integrating health-related training and preventive safety measures into RE and GH₂ workforce qualifications.	Annexure 10: OHS
Ministry of Urban and Rural Development (MURD)	- Oversees training, funding, and deployment of firefighting services. - Categorised as a primary stakeholder in firefighting training, alongside local authorities and municipalities. - Provides policy direction and resource allocation for firefighting and disaster management within Namibia's local governance structures.	Annexure 11: Firefighting
Ministry of Industries, Mines and Energy (MIME)	- Leads energy, mining, and industrial policy, including the Green Hydrogen Strategy and renewable energy regulation. - Provides oversight and approvals for RE/ GH₂ infrastructure (solar, wind, electrolyzers, desalination), ensuring alignment with national industrial policy.	- Annexure 5: Electrolyser Installation & Maintenance - Annexure 10: OHS
Ministry of Justice and Labour Relations (MoJLR)	- Regulatory Authority for OHS and Labour Compliance: Enforces Namibia's Labour Act (1992) and oversees implementation of workplace health and safety standards. - Approves and Certifies Training Providers (AIAs): Authorises inspection and training entities in OHS, firefighting, and industrial safety. - Ensures Competency and Legal Compliance: Certifies competent persons and monitors adherence to national labour and safety regulations across industries.	Annexure 10: OHS
Municipality of Mariental	- The City of Mariental Municipality proposed establishing a TVET firefighting programme at the newly refurbished Kai//Ganaxab Youth Training Centre. - The proposal includes implementing National Vocational Certificates in Fire and Rescue Operations (Levels 1–2) and equipping the centre to become a centre of excellence, potentially covering hydrogen firefighting in future	Annexure 11: Firefighting
Namibia Green Hydrogen Programme (NGH2P)	- Coordinates policy across ministries, ensuring hydrogen projects are aligned with national strategies (energy, water, skills). - Works with standards bodies (NSI/DIN) to adopt hydrogen-ready codes and regulations. - Serves as a national programme hub linking government, industry, and training authorities for skills development in the GH₂ sector.	Referenced in all annexes (1–11)

Namibia Standards Institution (NSI)	• National standards authority, ensuring compliance and certification through adoption of international codes (ISO, NFPA, DIN, IIW, etc.) into Namibia's RE/GH₂ framework. • Provides inspection, licensing, and safety oversight, embedding hydrogen safety and quality standards into training and regulatory systems. • Works with government, training authorities, and industry to establish hydrogen-ready standards across welding, plumbing, OHS, and electrolyser operations.	• Annexure 5: Electrolyser Installation & Maintenance • Annexure 7: Plumbing & Pipefitting • Annexure 8: Welding • Annexure 10: OHS
Namibia Training Authority (NTA)	• National regulator and custodian of technical and vocational training, overseeing all TVET delivery. • Develops occupational qualifications and unit standards, registers TVET training providers, coordinates national assessment and certification, including RPL, administers the training fund and quality assures training delivery, including work-integrated learning. • Ensures alignment of skills development with industry needs, coordinating with government, industry, and development partners for RE and GH₂ workforce readiness.	• Referenced in all annexes (1–11)
National Council for Higher Education (NCHE)	• Regulator for higher education and advanced TVET programmes, ensuring accreditation of qualifications at Levels 6 and above. • Works alongside NTA and NQA to safeguard quality and compliance in Namibia's education and training ecosystem. • Acts as a facilitator and coordinator for integrating universities and higher education into RE and GH₂ workforce development.	• Annexure 10: OHS • Annexure 11: Firefighting

2

TRAINING PROVIDERS (PUBLIC, PRIVATE AND COMMUNITY BASED)

Stakeholder Name	Role	Engaged and/or mentioned in the following reports
Baumgartsbrunn Training Centre	- Welding training centre near Windhoek offering courses up to NQF Level 3. - Provides basic welding skills for disadvantaged youth, complementing larger VTCs.	Annexure 8: Welding
Brave and Achiever College of Artisans	Private, NTA-registered training provider (Windhoek) offering welding up to NQF Level 4.	Annexure 8: Welding
Community Skills Development Centres (COSDECs)	- Community-based NTA-registered training centres providing entry-level skills (e.g. welding L2, plumbing, and basic technical trades). - Serve as accessible training hubs for youth and unemployed persons, complementing formal VTCs.	- Annexure 2: Solar Equipment Installation & Maintenance - Annexure 7: Plumbing and Pipefitting - Annexure 8: Welding - Annexure 9: Heavy Haulage
Eenhana Vocational Training Centre (EVTC)	- State-owned VTC in Ohangwena Region, offering NVC qualifications in Solar Equipment Installation & Maintenance (SEIM) (Levels 1–3) and Welding (up to Level 4). - Serves as one of Namibia's few centres with specialised training capacity in SEIM, positioned for expansion to higher NQF levels.	- Annexure 2: Solar Equipment Installation & Maintenance - Annexure 5: Electrolyser Installation & Maintenance - Annexure 6: Water Treatment & Desalination - Annexure 8: Welding
Gobabis Vocational Training Centre (GVTC)	- State-owned VTC (Omaheke Region) offering welding (L3) and mechanical trades. - Identified as a potential partner centre for water-treatment and desalination training in cooperation with NamWater HRDC.	- Annexure 6: Water Treatment and Desalination - Annexure 7: Plumbing and Pipefitting - Annexure 8: Welding
Kai // Ganaxab Youth Training Centre	- Youth training and rehabilitation centre near Mariental, offering basic welding and plans to offer firefighting NVC (L1–2) under NTA. - Supported by MURD and Hyphen GH₂ to become a centre of excellence for firefighting and emergency response.	- Annexure 8: Welding - Annexure 10: OHS - Annexure 11: Firefighting

Stakeholder Name	Role	Engaged and/or mentioned in the following reports
Katutura Youth Enterprise Centre (KAYEC)	- Community-based training provider, offering accredited vocational training in plumbing, construction, and related trades. - Provides entry-level and artisan training for disadvantaged youth, complementing state-owned VTCs. - Requires upgraded facilities, trainer upskilling, and curriculum reform to align with RE/GH₂ skills demands.	Annexure 7: Plumbing and Pipefitting
Marco Mpollo Vocational Training Centre (MAPAC VTC)	- Privately owned training provider in Opoto (Oshana Region), registered by NTA. - Offers welding at NQF Level 2 and electrical training, contributing to the skilled labour pool in northern Namibia.	- Annexure 1: Electrical Engineering - Annexure 8: Welding
Millenium Private College	- Private training provider in Windhoek, registered by NTA, offering vocational qualifications in Occupational Health and Safety (Preventive Health, NQF L4) and engaged in solar/SEIM training discussions. - Identified in the gap analysis as a private provider needing support to expand capacity for RE/GH₂-related skills.	- Annexure 2: Solar Equipment Installation & Maintenance - Annexure 10: OHS
Namibia College of Open Learning (NAMCOL)	- Public training provider offering accredited vocational courses (e.g. welding up to NQF Level 4, plumbing, and related trades) across multiple regions. - Provides blended learning models — combining distance education (self-study, e-learning, radio/TV, digital platforms) with practical training.	- Annexure 7: Plumbing and Pipefitting - Annexure 8: Welding - Annexure 10: OHS
Namibia Institute of Mining and Technology (NIMT)	- Specialised technical training institute in Namibia, offering modular qualifications in mining, welding, electrical, mechanical, and related trades. - Provides welding training (ASME IX-based) and technical trades, though reliant on conventional technologies and in need of modernisation for hydrogen-ready skills. - Identified as a core partner for RE/GH₂ training, already engaged in international upskilling and trainer exchanges.	- Annexure 1: Electrical Engineering - Annexure 7: Plumbing and Pipefitting - Annexure 8: Welding - Annexure 10: OHS
Namibian Maritime and Fisheries Institute (NAMFI)	- Specialised maritime training institute (Walvis Bay) offering marine engineering, navigation, and safety courses aligned with IMO standards. - Provides sector-specific technical training relevant to coastal hydrogen logistics and desalination operations. - Bridges Namibia's TVET and port-industry workforce needs, not part of higher-education (non-degree).	Annexure 6: Water Treatment & Desalination

Stakeholder Name	Role	Engaged and/or mentioned in the following reports
NamPower Training Centre	- National power utility and technical-training provider operating the NamPower Training Centre for electrical, instrumentation, and safety skills. - Consulted in nearly all annexes on workforce planning, electrical-safety standards, and integration of renewable and hydrogen technologies. - Provides accredited in-house training and apprenticeships, supporting Namibia's energy-sector and hydrogen-ready workforce.	- Annexure 1: Electrical Engineering - Annexure 2: Solar Equipment Installation & Maintenance - Annexure 4: Instrumentation & Control - Annexure 10: OHS - Annexure 11: Firefighting
NamVoc Vocational Institute	- Private NTA-registered training provider offering Solar Equipment Installation & Maintenance (L1–3) and OHS training. - Recognised for modern facilities and strong industry ties, contributing to RE/GH₂-related workforce development.	- Annexure 2: Solar Equipment Installation & Maintenance - Annexure 10: OHS
NamWater Human Resource Development Centre (HRDC)	- NamWater training facility (Von Bach, Okahandja) offering NVC in Water Supply & Sanitation (L1–3) with strong hands-on capacity. - Main producer of water treatment operators, but needs modernisation (desalination, hydrogen-ready modules, trainer upskilling). - Sector-specific to water treatment; limited role beyond that (e.g. not in transport/logistics).	- Annexure 6: Water Treatment & Desalination - Annexure 9: Heavy Haulage
National Youth Service (NYS)	- State-owned training provider (Rietfontein Campus) offering vocational training, including welding up to NQF Level 3. - Partnered with NUST to deliver accredited TVET programmes through its satellite campus.	- Annexure 2: Solar Equipment Installation & Maintenance - Annexure 4: Instrumentation & Control - Annexure 8: Welding
NICHE Training Academy / NICHE Welding Academy	- Private, NTA-registered welding academy (Walvis Bay) offering advanced welding up to NQF Level 4. - Collaborates with the South African Institute of Welding (SAIW) to align training with international welding standards and qualifications. - Identified as a specialised private provider with the potential to deliver hydrogen-ready welding training in Namibia.	Annexure 8: Welding
NIRVANA Training Centre	- Private training provider in Walvis Bay, registered by NTA, delivering firefighting (NVC L1–4), OHS, and technical short courses. - Provides entry level welding, electrical, instrumentation, heavy equipment, and safety training, though mainly at entry/intermediate levels.	- Annexure 1: Electrical Engineering - Annexure 4: Instrumentation & Control - Annexure 8: Welding - Annex 10: OHS - Annexure 11: Firefighting

Stakeholder Name	Role	Engaged and/or mentioned in the following reports
Nakayale Vocational Training Centre (NVTC)	- State-owned VTC (Omusati Region) offering welding and electrical. - Part of the NEV TVET Hub to pilot mechatronics qualification.	- Annexure 2: Solar Equipment Installation & Maintenance - Annexure 7: Plumbing and Pipefitting - Annexure 8: Welding
Okakarara Vocational Training Centre (OVTC)	- State-owned VTC (Otjozondjupa Region) offering plumbing (L4) and welding (L3). - Serves the Otjozondjupa Region, supplying trained artisans to surrounding towns and rural areas.	- Annexure 7: Plumbing and Pipefitting - Annexure 8: Welding
Ondangwa Commercial College (OCC)	- Private, NTA-registered provider offering Solar Equipment Installation & Maintenance (L4–5) and Occupational Health and Safety (L4–5) qualifications. - Only Namibian institution currently implementing SEIM at advanced levels (L5), strengthening national RE training capacity.	- Annexure 2: Solar Equipment Installation & Maintenance - Annexure 10: OHS
RIK Technical College	- Private, NTA-registered training provider (Windhoek) offering welding up to NQF Level 4 and OHS-related short courses. - Trains both industry employees and learners, contributing to Namibia's skilled artisan pipeline.	- Annexure 8: Welding - Annexure 10: OHS
Rundu Vocational Training Centre (RVTC)	- State-owned VTC (Kavango East Region) offering electrical, solar (SEIM L2–3), plumbing, and welding (L3). - Identified as well-positioned to expand RE and GH₂ training with trainer upskilling and facility upgrades.	- Annexure 2: Solar Equipment Installation & Maintenance - Annexure 8: Welding - Annexure 7: Plumbing and Pipefitting - Annexure 9: Heavy Haulage
Skillset Namibia	- Private Namibian training provider offering short courses for heavy-vehicle operation, crane and rigging skills, and occupational safety. - Provides industry-recognised safety and machinery training, relevant to GH₂ logistics and infrastructure construction.	- Annexure 9: Heavy Haulage - Annexure 10: OHS
Valombola Vocational Training Centre (VVTC)	- State-owned VTC (Oshana Region) offering electrical, plumbing (L4) and welding (L3). - Well-equipped centre with solid infrastructure and good enrolment, identified for future expansion into solar and renewable-energy training.	- Annexure 2: Solar Equipment Installation & Maintenance - Annexure 7: Plumbing and Pipefitting - Annexure 8: Welding

Stakeholder Name	Role	Engaged and/or mentioned in the following reports
Windhoek VTC (WVTC)	- State-owned VTC (Komasdal, Windhoek) offering Solar Equipment Installation & Maintenance (L1–2) and welding (L4). - Cited as having limited trainer and equipment capacity to expand to advanced SEIM levels (L4–5).	- Annexure 2: Solar Equipment Installation & Maintenance - Annexure 4: Instrumentation & Control - Annexure 5: Electrolyser Installation & Maintenance - Annexure 7: Plumbing and Pipefitting - Annexure 8: Welding
Zambezi Vocational Training Centre (ZVTC)	- State-owned VTC (Zambezi Region) offering electrical and welding (L3). - Strategically located regional centre, enhancing technical training access for eastern Namibia. - Identified as a potential future provider of solar and renewable-energy programmes, pending trainer and facility upgrades.	- Annexure 2: Solar Equipment Installation & Maintenance - Annexure 8: Welding

3

HIGHER EDUCATION INSTITUTIONS

Stakeholder Name	Role	Engaged and/or discussed in the following reports
Namibia University of Science and Technology (NUST)	- National university offering degree and postgraduate programmes in renewable energy, engineering, and environmental health, including MSc Sustainable Energy Systems and Hydrogen Summer/Winter Schools. - Serves as a bridge between TVET and higher education, co-developing curricula, articulations, and joint programmes in solar, electrical, electrolyser, and OHS domains. - Through its Namibia Energy Institute, NUST provides applied R&D, curriculum design, and laboratory testing capacity for hydrogen, solar-energy and desalination systems, complementing TVET delivery and national policy development.	- Annexure 1: Electrical Engineering - Annexure 2: Solar Equipment Installation & Maintenance - Annexure 4: Instrumentation & Control - Annexure 5: Electrolyser Installation & Maintenance - Annexure 6: Water Treatment & Desalination - Annexure 10: OHS
Triumphant College	- Private higher-education institution (Windhoek) offering certificate and diploma programmes in Electrical and Electronics Engineering accredited by NCHE. - Potential partner for alignment of electrical curricula with hydrogen-ready systems and renewable-energy standards.	Annexure 1: Electrical Engineering
University of Namibia (UNAM)	- National research university advancing applied science in renewable energy, hydrogen, water treatment, welding materials and safety. - Via the Namibia Green Hydrogen Research Institute, School of Engineering and the Built Environment, and Multidisciplinary Research Centre, UNAM leads research on hydrogen production, materials & corrosion (with WELDNAM), and water-resource optimisation, feeding evidence into national curricula and standards. - Bridges academia, TVET and industry by linking R&D with qualification frameworks.	- Annexure 1: Electrical Engineering - Annexure 2: Solar Equipment Installation & Maintenance - Annexure 4: Instrumentation & Control - Annexure 5: Electrolyser Installation & Maintenance - Annexure 6: Water Treatment & Desalination - Annexure 8: Welding - Annexure 10: OHS - Annexure 11: Firefighting

4

PRIVATE SECTOR

Stakeholder Name	Role	Engaged and/or discussed in the following reports
3C Metal Belmet	- Heavy-fabrication and metal-engineering company providing coded-welding and repair services for Namibia's oil, gas, and hydrogen-ready industrial sector. - Consulted on certification standards and workforce skill gaps for advanced welding and inspection. - Offers workplace attachments for welding trainees to gain industry exposure.	Annexure 8: Welding
Cleanergy Solutions Namibia	- Private hydrogen project developer (joint venture between CMB.TECH and Ohlthaver & List) leading construction of Namibia's first hydrogen refuelling station near Walvis Bay. - Consulted on workforce and skills needs for electrical, instrumentation, and welding occupations linked to hydrogen production and refuelling. - Provides industry placements and site access for training partnerships, including their own GH₂ Academy.	- Annexure 1: Electrical Engineering - Annexure 4: Instrumentation & Control - Annexure 5: Electrolyser Installation & Maintenance - Annexure 7: Plumbing and Pipefitting - Annexure 8: Welding
Daures Green Hydrogen (GH ₂) Village	- Flagship public-private hydrogen pilot project integrating solar and wind energy for green-ammonia and fertiliser production in the Daures Constituency. - Consulted across multiple annexes on workforce requirements for solar, wind, and electrolyser operations, as well as safety and maintenance roles. - Serves as a national demonstration and training site supporting curriculum alignment and work-integrated learning for RE/GH₂ occupations.	- Annexure 2: Solar Equipment Installation and Maintenance - Annexure 3: Wind Turbine Installation & Maintenance - Annexure 5: Electrolyser Installation & Maintenance
Namibia Green Hydrogen Association (NamGHA)	- Umbrella body representing Namibia's private hydrogen developers (Hyphen, HyIron, Cleanergy, HDF, Daures, etc.). - Coordinates industry-government dialogue on policy, standards, and workforce development. - Evolved from the earlier GH₂ Task Force, now serving as the official industry association (NamGHA) within Namibia's hydrogen ecosystem.	- Annexure 4: Instrumentation and Control - Annexure 5: Electrolyser Installation & Maintenance

Stakeholder Name	Role	Engaged and/or discussed in the following reports
Grindrod Limited (Namibia ops)	Regional logistics and port-services company (Walvis Bay, Lüderitz) providing bulk transport, cargo handling, and abnormal-load haulage.	Annexure 9: Heavy Haulage
HopSol Africa	- Namibian independent power producer (IPP) specialising in solar farm development, construction, and operation. - Provides employment and WIL placements for electricians, PV installers, and instrumentation technicians. - Consulted on skills gaps in solar-plant maintenance, monitoring, and electrical safety standards.	- Annexure 1: Electrical Engineering - Annexure 4: Instrumentation & Control
Hydrogen de France (HDF)-Energy	- Renewable-hydrogen and fuel-cell project developer operating as HDF Energy Namibia, focused on hydrogen-to-power generation. - Consulted on electrolyser operation, grid integration, and safety standards for hydrogen-power systems. - Contributes international expertise to Namibia's hydrogen value-chain development and workforce planning.	- Annexure 1: Electrical Engineering - Annexure 5: Electrolyser Installation & Maintenance
HyIron Green Technologies	- Developer of Namibia's first green-iron pilot plant (Arandis) using hydrogen-based direct-reduction technology. - Focuses on domestic value addition, producing low-emission iron rather than hydrogen export. - Consulted on automation, instrumentation, and electrolyser operation, contributing to skills mapping for hydrogen-industrial processes.	- Annexure 4: Instrumentation & Control - Annexure 5: Electrolyser Installation & Maintenance - Annexure 11: Firefighting
Hyphen Hydrogen Energy	- Flagship hydrogen developer implementing the Tsau //Khaeb Green Hydrogen Project—Namibia's largest GH₂ and ammonia-export venture. - Consulted extensively on workforce planning, electrical systems, electrolyser operation, and safety standards across multiple annexes. - Core industry partner providing training collaboration, internships, and input to national qualification design for RE/GH₂ trades.	- Annexure 1: Electrical Engineering - Annexure 3: Wind Turbine Installation & Maintenance - Annexure 5: Electrolyser Installation & Maintenance - Annexure 7: Plumbing & Pipefitting - Annexure 8: Welding
InnoSun / InnoVent	- Independent power producer (IPP) operating solar and wind-energy plants across Namibia under the InnoVent Group. - Consulted on workforce needs for electrical, solar, and wind-technician occupations, offering industry placements and input on training standards. - Long-standing RE operator, contributing to Namibia's domestic renewable-energy generation and technical upskilling.	- Annexure 1: Electrical Engineering - Annexure 3: Wind Turbine Installation & Maintenance

Stakeholder Name	Role	Engaged and/or discussed in the following reports
Kraatz Engineering	- Marine and offshore engineering company (Walvis Bay) providing ship repair, heavy fabrication, and welding services under ISO 3834 standards. - Consulted in Welding annex on certification, hydrogen-ready fabrication, and apprentice training. - Recognised in Consolidated Report as a key industrial employer supporting Namibia's technical and hydrogen-logistics workforce.	- Annex 4: Instrumentation and Control - Annexure 8: Welding
NAMDOCK	- Marine and offshore engineering company (Walvis Bay) providing ship repair, heavy fabrication, and welding services under ISO 3834 standards. - Consulted in Welding annex on certification, hydrogen-ready fabrication, and apprentice training. - Recognised in Consolidated Report as a key industrial employer supporting Namibia's technical and hydrogen-logistics workforce.	Annexure 8: Welding
Namibia Chamber of Commerce and Industry (NCCI)	- National employers' representative body, promoting responsible business, skills development, and safe working conditions. - Key social-dialogue actor connecting employers with government and training institutions in Namibia's RE / GH₂ transition.	Annexure 10: OHS
Namibia Manufacturers Association (NMA)	- Industry association representing Namibia's manufacturing and industrial firms. - Engages in policy dialogue on industrial upgrading, value addition, and workforce readiness in the renewable-energy and GH₂ sectors.	Annexure 5: Electrolyser Installation & Maintenance
Raysonic Inspection, Testing & Certification (RITC) (Pty) Ltd	Private welding-inspection and training company providing non-destructive testing (NDT), quality control, and certification support to Namibia's fabrication industry.	Annexure 8: Welding
Welding Association of Namibia (WELDNAM)	- National industry association representing Namibia's welding sector and promoting certification, safety, and skills standards. - Partnered with UNAM to advance hydrogen-ready materials and corrosion research supporting new qualification frameworks.	Annexure 8: Welding
Zhero	- Developer of large-scale green ammonia production plant targeting ~500 000 tonnes per year by 2029, powered by renewable energy and electrolysis. - Key private-sector stakeholder in Namibia's emerging hydrogen value chain, contributing to industrialisation and future export potential of green fuels.	- Annexure 4: Instrumentation & Control - Annexure 5: Electrolyser Installation & Maintenance

5

CERTIFICATION BODIES

A. International Certification Bodies

Stakeholder Name	Role	Engaged and/or discussed in the following reports
American Welding Society (AWS)	Sets global welding codes (e.g. AWS D18) and certification systems; referenced as international standard for coded welding and inspection.	Annexure 8: Welding
American Society of Mechanical Engineers (ASME)	Provides international codes for pressure vessels and hydrogen piping (e.g. ASME Section IX, B31.12); key reference for welder qualification and hydrogen infrastructure.	- Annexure 5: Electrolyser Installation & Maintenance - Annexure 8: Welding
Global Wind Organisation (GWO)	- Sets international training and safety standards for wind-turbine technicians worldwide. - Referenced as the mandatory standard for wind-industry	- Annexure 3: Wind Turbine Installation & Maintenance - Annexure 10: OHS
International Institute of Welding (IIW)	Sets international welding standards and certification systems; referenced for ISO 9606 and ISO 3834 alignment.	Annexure 8: Welding
International Labour Organization (ILO)	Provides global conventions and competency standards on occupational safety, decent work, and training conditions.	Annexure 10: OHS
International Organization for Standardization (ISO)	Cross-cutting standard-setting body; referenced for quality (ISO 9001), OHS (ISO 45001), and welding (ISO 3834) standards.	- Annexure 8: Welding - Annexure 10: OHS
National Examination Board in Occupational Safety and Health (NEBOSH, UK)	Provides internationally recognised OHS and HSE certifications; referenced as model qualification framework for safety-training programmes.	Annexure 10: OHS
National Fire Protection Association (NFPA, USA)	Referenced for firefighting and industrial safety standards in Namibia's firefighting curricula benchmarking.	Annexure 11: Firefighting

B. Regional / South African Certification & Qualification Authorities

Stakeholder Name	Role	Engaged and/or discussed in the following reports
Quality Council for Trades and Occupations (QCTO)	Can serve as benchmark qualification authority for Namibian occupational standards alignment (TVET trades).	- Annexure 1: Electrical Engineering - Annexure 7: Plumbing - Annexure 8: Welding
South African Qualifications Authority (SAQA)	Referenced for regional alignment of qualification levels (NQF equivalence).	- Annexure 1: Electrical Engineering - Annexure 7: Plumbing & Pipefitting - Annexure 8: Welding
Sector Education and Training Authorities (SETA)	Mentioned as sector-based training and certification bodies relevant to Namibia's hydrogen-aligned skills benchmarking.	- Annexure 1: Electrical Engineering - Annexure 5: Electrolyser Installation & Maintenance
South African Emergency Services Institute (SEASI)	Referenced for firefighting and emergency-response certification standards.	Annexure 11: Firefighting

C. Namibian or Local Industry-Based Certification & Testing Providers

Stakeholder Name	Role	Engaged and/or discussed in the following reports
Electricity Control Board (ECB)	- National electricity regulator, responsible for licensing, compliance monitoring, and enforcing the Namibia Electricity Safety Code (NESC). - Issues Certificates of Compliance (CoCs) for electrical installations and authorises inspection authorities. - Ensures safety code harmonisation and regulatory oversight for electrical and hydrogen-related installations.	- Annexure 1: Electrical Engineering - Annexure 10: OHS
Namibia Energy Institute (NEI, at NUST)	Provides testing, lab certification, and verification for renewable-energy systems (solar equipment, inverters, safety). Acts as Namibia's de facto technical certifier for renewable-energy hardware.	- Annexure 2: Solar Equipment Installation & Maintenance - Annexure 6: Water Treatment & Desalination
Namibia Fire Protection Association (NFPA Namibia)	Referenced as national partner for firefighting-equipment certification, inspection, and training accreditation under NFPA and SEASI guidance.	Annexure 11: Firefighting
Namibia Standards Institution (NSI)	National standards and conformity-assessment body; oversees certification, metrology, and inspection under Namibian law.	Referenced in all annexes (1–11)
PS HSE Consulting CC	Private OHS certifiers and audit firms conducting workplace-safety audits, ISO 45001 implementation, and safety certification for companies.	Annexure 10: OHS
Raysonic Inspection, Testing & Certification (RITC, (Pty) Ltd)	Private NDT and quality-control service provider, offering industrial inspection, certification, and welding tests.	- Annexure 8: Welding - Annexure 10: OHS

Stakeholder Name	Role	Engaged and/or discussed in the following reports
Royal SHE Consultancy	Private OHS certifiers and audit firms conducting workplace-safety audits, ISO 45001 implementation, and safety certification for companies.	Annexure 10: OHS
SHEQ Eyeq Namibia	Private OHS certifiers and audit firms conducting workplace-safety audits, ISO 45001 implementation, and safety certification for companies.	Annexure 10: OHS
Welding Association of Namibia (WELDNAM)	Professional industry association coordinating certification and training aligned with IIW and SAIW standards. Currently in set-up.	Annexure 8: Welding

6

UTILITY

Stakeholder Name	Role	Engaged and/or discussed in the following reports
Central Northern Regional Electricity Distributor (CENORED)	Regional electricity distributor covering northern Namibia; manages distribution and rural-electrification operations.	Annexure 1: Electrical Engineering
Erongo RED	Regional electricity distributor for the Erongo Region (Walvis Bay, Swakopmund, Henties Bay); involved in renewable-energy pilot integration and grid maintenance.	- Annexure 1: Electrical Engineering, - Annexure 2: Solar Equipment Installation & Maintenance
NamPort	Namibia Ports Authority: National port and logistics utility providing harbour infrastructure and safety-training facilities relevant to hydrogen export logistics.	- Annexure 6: Water Treatment & Desalination, - Annexure 7: Plumbing & Pipefitting
NamPower	National electricity generation and transmission utility. Operates grid infrastructure, renewable-integration projects and the NamPower Training Centre.	- Annexure 1: Electrical Engineering - Annexure 2: Solar Equipment Installation & Maintenance - Annexure 4: Instrumentation & Control - Annexure 10: OHS - Annexure 11: Firefighting
NamWater	- National water utility responsible for bulk supply, pipeline infrastructure, and desalination systems - Provides workplace training through its NamWater Human Resource Development Centre (HRDC).	- Annexure 6: Water Treatment & Desalination, - Annexure 7: Plumbing and Desalination
Oshakati Premier Electric	Municipal electricity distributor supplying Oshakati and surrounding areas; mentioned as a partner in regional electrical-technician training.	Annexure 1: Electrical Engineering

7

REGIONAL TRAINING INSTITUTION

Stakeholder Name	Role	Engaged in the Following Studies
Cape Peninsula University of Technology (CPUT, South Africa)	- University-level benchmark institution for instrumentation, automation, and control-system training. - Referenced for potential partnership and curriculum benchmarking with Namibian institutions.	Annexure 4: Instrumentation & Control
Energy and Water Sector Education and Training Authority (EWSETA, South Africa)	- South African sectoral training authority responsible for energy and water-sector skills development and TVET curriculum alignment. - Serves as a regional benchmark for qualification design and ToT in water and energy trades.	- Annexure 1: Electrical Engineering - Annexure 6: Water Treatment & Desalination - Annexure 7: Plumbing
Rand Water Academy (South Africa)	- Regional training provider for water-treatment operations, offering applied operator training and certification pathways. - Referenced for partnership potential and CPD benchmarking in Namibia's water sector.	Annexure 6: Water Treatment & Desalination
Port Elizabeth TVET College (South Africa)	- Regional TVET provider offering instrumentation, mechanical, and automation programmes. - Referenced for benchmarking Namibia's future instrumentation-technician curricula.	Annexure 4: Instrumentation & Control
South African Renewable Energy Technology Centre (SARETEC)	- National renewable-energy training centre providing specialised courses for solar PV and wind technicians. - Acts as a benchmark and regional partner for renewable-energy training and curriculum development	- Annexure 1: Electrical Engineering - Annexure 2: Solar Equipment Installation & Maintenance - Annexure 3: Wind Turbine Installation & Maintenance
Southern African Institute of Welding (SAIW)	- Regional welding certification and training institute affiliated with the IIW. - Provides testing, welder certification, and hydrogen-readiness standards used as reference for Namibia's national welding frameworks.	Annexure 8: Welding
South African Emergency Services Institute (SAESI, South Africa)	- Regional emergency-services and firefighting training authority offering certification, CPD, and train-the-trainer programmes for SADC countries. - Recognises City of Windhoek training and supports regional harmonisation of firefighting standards.	Annexure 11: Firefighting

Stakeholder Name	Role	Engaged in the Following Studies
Water Institute of Southern Africa (WISA, South Africa)	- Professional training and CPD body for water and sanitation professionals. - Serves as a benchmark for technical competence and continuous professional development in water utilities.	Annexure 6: Water Treatment & Desalination