Accredited Africa Training Institute for Capacity Development
Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa
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COURSE BROCHURE

Hydrogen Economy

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0539 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course provides a comprehensive understanding of the hydrogen economy, covering production, storage, distribution, and end-use applications. It equips learners with the knowledge to analyze the economic, environmental, and policy drivers shaping this emerging sector, and to identify opportunities and challenges for its implementation in the South African context.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0539
Accreditation	SAQA Accredited · NQF Level 5 · 4 Credits
Duration	2 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS — verifiable online

LEARNING OUTCOMES

- Apply the principles of hydrogen production, including electrolysis, steam methane reforming, and emerging technologies.
- Analyze the value chain of hydrogen, including storage, transportation, and distribution methods.
- Evaluate the economic viability and environmental impact of hydrogen projects.
- Demonstrate understanding of the global and South African policy frameworks and regulations governing the hydrogen economy.
- Design a preliminary business case for a hydrogen-based project or application.

WHO SHOULD ATTEND

- This course is designed for professionals in energy, engineering, business development, policy-making, and sustainability sectors who seek to understand and participate in the hydrogen economy.
- It is also suitable for individuals interested in transitioning to careers in this field.

COURSE OUTLINE

Day 1: **Foundations of the Hydrogen Economy**

- Introduction to the hydrogen economy: drivers, benefits, and challenges.
- Hydrogen production: grey, blue, and green hydrogen, electrolysis, and reforming.
- Hydrogen storage: compression, liquefaction, and material-based storage.
- Hydrogen distribution: pipelines, tube trailers, and refuelling stations.
- Overview of hydrogen applications: transport, power generation, industry, and heating.
- South African hydrogen strategy and key projects (e.g., Platinum Valley).
- Regulatory landscape: standards, codes, and permits.
- Safety basics: hydrogen properties, hazards, and personal protective equipment.

Day 2: **Applications, Integration, and Future Trends**

- Hydrogen fuel cells: principles, types, and efficiencies.
- Hydrogen in transport: fuel cell electric vehicles (FCEVs), buses, and heavy-duty trucks.
- Hydrogen in industry: refining, ammonia production, and steelmaking.
- Hydrogen for power generation: gas turbines, fuel cells, and energy storage.
- Economic analysis: levelized cost of hydrogen, infrastructure costs, and incentives.
- Environmental impact: carbon footprint, water usage, and life-cycle assessment.
- Case studies: international and local hydrogen projects.
- Future outlook: hydrogen valleys, export opportunities, and innovation.

ASSESSMENT & CERTIFICATION

Delegates are assessed through exercises and a final test. A mark of **50% or above** earns an **AATICD Certificate of Completion**, issued digitally with a unique verification code. This course carries **4 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 11,900.00	**R 11,900.00**
1	In-House	R 16,100.00	**R 16,100.00**
1	On-Campus (Pretoria)	R 17,800.00	**R 17,800.00**

UPCOMING SESSIONS

Start	End	Method	Venue
24 Nov 2026	25 Nov 2026	On-Campus	Mauritius
25 Nov 2026	26 Nov 2026	On-Campus	Harare, Zimbabwe
25 Nov 2026	26 Nov 2026	On-Campus	Johannesburg, South Africa
26 Nov 2026	27 Nov 2026	On-Campus	Abu Dhabi, UAE
26 Nov 2026	27 Nov 2026	On-Campus	Accra, Ghana
30 Nov 2026	01 Dec 2026	On-Campus	Lagos, Nigeria
30 Nov 2026	01 Dec 2026	On-Campus	Shenzhen, China
01 Dec 2026	02 Dec 2026	On-Campus	Durban, South Africa

Contact us if no suitable date is listed — on-demand sessions can be arranged for groups.

HOW TO GET A QUOTE OR APPLY

1. **Get an instant quotation online:** visit **www.aaticd.co.za**, open the page for this course (Unit Standard AATICD-0539) and click **Get A Quote / Apply**. Select your training method and number of delegates — your quotation is generated immediately and emailed to you with the course brochure attached.
2. **Apply by email:** send the course title, your preferred training method (Online, In-House or On-Campus Pretoria), the number of delegates and your preferred dates to **apply@aaticd.co.za** — our team will reply with a formal quotation.
3. **Apply by phone or WhatsApp:** call **+27 12 004 8389** or WhatsApp **+27 65 077 6310** and we will prepare your quotation and reserve your seats.
4. **Confirm your booking:** accept the quotation and settle the invoice. As soon as payment is confirmed your delegates are enrolled and receive their AATICD LMS login details by email, along with joining instructions for their chosen training method.

Group discounts apply automatically — the more delegates you enrol, the lower the price per delegate. No payment is required to request a quotation.

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