



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

Natural Sciences Facilitation For Adult Learners Training

Education, Training and Development / Adult Learning

Unit Standard 117458 · NQF Level 5 · 20 Credits · 17 Days

COURSE OVERVIEW

This course equips trainers and facilitators with the skills to effectively deliver natural sciences content to adult learners in diverse educational and workplace settings. It focuses on adult learning principles, practical facilitation techniques, and contextualisation of scientific concepts to enhance learner engagement and understanding.

Category	Education, Training and Development
Subfield	Adult Learning
Unit Standard	117458
Accreditation	SAQA Accredited · NQF Level 5 · 20 Credits
Duration	17 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply adult learning theories to design and adapt natural sciences facilitation strategies.
- Demonstrate effective communication and questioning techniques to engage adult learners.
- Analyze the specific learning needs and prior knowledge of adult learners in natural sciences.
- Evaluate and select appropriate resources and activities for facilitating natural sciences topics.
- Implement inclusive facilitation methods that accommodate diverse learner backgrounds and abilities.
- Design assessment activities that measure understanding of natural sciences concepts in real-world contexts.

WHO SHOULD ATTEND

- This course is designed for trainers, educators, and facilitators who deliver natural sciences training to adult learners in corporate, vocational, or community education environments.

COURSE OUTLINE

Day 1: Introduction to Natural Sciences Facilitation for Adults

- Overview of natural sciences facilitation
- Differences between pedagogy and andragogy
- Principles of adult learning (self-concept, experience, readiness, orientation, motivation)
- Roles and responsibilities of a facilitator
- Introduction to Unit Standard 117458 and its outcomes

Day 2: Understanding the Adult Learner

- Profile of the adult learner in natural sciences
- Learning styles and preferences (VARK, Kolb)
- Experience as a resource for learning
- Common barriers: time, confidence, prior knowledge
- Strategies to enhance motivation and engagement

Day 3: Curriculum and Learning Outcomes in Natural Sciences

- South African curriculum context (CAPS, NQF)
- Writing SMART learning outcomes
- Outcome-based education principles
- Mapping outcomes to unit standards
- Balancing scientific content with practical application

Day 4: Designing Engaging Learning Activities

- Active learning strategies: discussions, case studies, problem-solving
- Inquiry-based learning in natural sciences
- Experiential learning cycle (Kolb)
- Contextualisation: linking science to everyday life
- Scaffolding techniques for varied levels

Day 5: Facilitation Techniques for Adult Learners

- Questioning techniques: open, closed, probing, Socratic
- Facilitating group discussions and debates
- Managing dominant and quiet participants
- Collaborative learning: think-pair-share, jigsaw, group projects
- Flexibility in facilitation approaches

Day 6: Integrating Practical Demonstrations and Experiments

- Selecting appropriate demonstrations for adult learners
- Step-by-step planning of experiments
- Safety protocols and risk assessment
- Resource management: materials, equipment, space
- Debriefing and linking practice to theory

Day 7: Using Technology in Natural Sciences Facilitation

- Overview of educational technology tools
- Simulations and virtual labs (PhET, Labster)
- Using multimedia: videos, animations, podcasts
- Online collaboration tools (Google Classroom, Padlet)

- Supporting learners with low digital literacy

Day 8: Assessment Strategies for Adult Learners

- Types of assessment: diagnostic, formative, summative
- Authentic assessment: portfolios, projects, practical tasks
- Rubrics and criteria for assessment in science
- Feedback techniques: timely, specific, actionable
- Recognition of prior learning (RPL) processes

Day 9: Language and Communication in Science Facilitation

- Plain language principles for science communication
- Using analogies, metaphors, and stories
- Visual aids: diagrams, charts, models
- Supporting English second language learners
- Encouraging scientific argumentation and discussion

Day 10: Inclusive Facilitation Practices

- Understanding learner diversity: culture, gender, disability
- Universal Design for Learning (UDL) framework
- Differentiating instruction for varied needs
- Culturally responsive teaching in science
- Building an inclusive classroom climate

Day 11: Environmental and Sustainability Education

- Key environmental concepts: ecosystems, biodiversity, climate change
- Sustainability education principles
- Local environmental case studies
- Citizen science projects for adult learners
- Fostering environmental responsibility

Day 12: Facilitating Science in the Workplace and Community

- Workplace learning: health and safety, process understanding
- Community of practice models
- Service learning and community projects
- Science for everyday decision-making
- Measuring transfer of learning to practice

Day 13: Reflective Practice and Professional Development

- Models of reflective practice (Schön, Gibbs)
- Self-assessment and peer observation
- Using learner evaluation data
- Continuing professional development opportunities
- Creating a personal facilitation portfolio

Day 14: Managing Challenging Situations in the Classroom

- Common challenges: resistance to science, misconceptions, anxiety
- Conflict resolution strategies
- Dealing with disruptive behaviour
- Addressing scientific misconceptions
- Building resilience and rapport

Day 15: Quality Assurance and Evaluation of Facilitation

- Quality assurance frameworks in South Africa
- Developing evaluation instruments (surveys, interviews)
- Analysing evaluation data
- Continuous improvement cycles
- Compliance with unit standard requirements

Day 16: Designing a Comprehensive Facilitation Plan

- Elements of a facilitation plan
- Aligning outcomes, activities, and assessments
- Time management and sequencing
- Resource planning and budgeting
- Peer feedback and revision process

Day 17: Final Integration and Action Planning

- Presentation of facilitation plans
- Peer and facilitator feedback sessions
- Action planning for workplace application
- Commitment to ongoing professional development
- Course closure and certification

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 **20 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 56,500.00	R 56,500.00
1	In-House	R 73,400.00	R 73,400.00
1	On-Campus (Pretoria)	R 84,700.00	R 84,700.00

UPCOMING SESSIONS

Start	End	Method	Venue
07 Aug 2026	31 Aug 2026	On-Campus	Johannesburg, South Africa
10 Aug 2026	01 Sep 2026	On-Campus	Cape Town, South Africa
11 Aug 2026	02 Sep 2026	On-Campus	Dubai, UAE
12 Aug 2026	03 Sep 2026	On-Campus	Pretoria, South Africa
13 Aug 2026	04 Sep 2026	On-Campus	Abu Dhabi, UAE
14 Aug 2026	07 Sep 2026	On-Campus	Durban, South Africa
14 Aug 2026	07 Sep 2026	On-Campus	Mauritius
17 Aug 2026	08 Sep 2026	On-Campus	Dubai, UAE

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 117458) 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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