Accredited Africa Training Institute for Capacity Development
Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa
Tel: +27 12 004 8389 · Mobile: +27 65 077 6310
Email: apply@aaticd.co.za · Website: www.aaticd.co.za

COURSE BROCHURE

Built Environment Research Project Management Skills Training

Physical Planning and Construction / Physical Planning, Design and Management

Unit Standard 116350 · NQF Level 7 · 20 Credits · 17 Days

COURSE OVERVIEW

This course equips learners with the skills to manage research projects within the built environment, including planning, execution, monitoring, and reporting. It enables professionals to apply project management principles to research activities, ensuring timely and quality outcomes that meet stakeholder requirements.

Category	Physical Planning and Construction
Subfield	Physical Planning, Design and Management
Unit Standard	116350
Accreditation	SAQA Accredited · NQF Level 7 · 20 Credits
Duration	17 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS — verifiable online

LEARNING OUTCOMES

- Apply project management principles to plan and scope built environment research projects.
- Develop and implement research project schedules, budgets, and resource plans.
- Monitor and control research project progress using appropriate tools and techniques.
- Evaluate research project outcomes against objectives and report findings effectively.
- Demonstrate ethical conduct and compliance with relevant legislation and standards.
- Analyze and manage risks associated with built environment research projects.

WHO SHOULD ATTEND

- This course is designed for built environment professionals, researchers, project managers, and technical staff involved in research projects in construction, engineering, and related fields.

COURSE OUTLINE

Day 1: Introduction to Research Project Management in the Built Environment

- Overview of the built environment sector (engineering, construction, property development
- Research project management vs. general project management
- Role of the research project manager
- Stakeholder identification and analysis
- Regulatory frameworks: SAQA, ECSA, SACPCMP
- Ethical considerations in research

Day 2: Research Methodologies for the Built Environment

- Research paradigms: positivism, interpretivism, pragmatism
- Quantitative methods: surveys, experiments, numerical analysis
- Qualitative methods: case studies, interviews, observations
- Mixed-methods approaches
- Sampling strategies
- Validity and reliability in built environment research

Day 3: Project Lifecycle and Phases

- Project lifecycle models (PMBOK, PRINCE2
- Initiation phase: problem identification, feasibility
- Planning phase: scope, schedule, budget
- Execution phase: data collection, analysis
- Monitoring and controlling: progress tracking
- Closure phase: reporting, dissemination

Day 4: Developing a Research Proposal and Scope Management

- Components of a research proposal
- Problem statement and research questions
- Project charter development
- Scope definition and scope statement
- Work breakdown structure (WBS
- Scope verification and control

Day 5: Time and Schedule Management

- Activity definition and sequencing
- Duration estimation techniques (expert judgment, analogous, parametric
- Gantt charts and milestone charts
- Network diagrams: PERT, CPM
- Critical path method
- Schedule compression: crashing, fast-tracking

Day 6: Cost and Resource Management

- Cost estimation methods (bottom-up, top-down
- Budget development and contingency planning
- Resource planning and allocation
- Resource leveling and smoothing
- Earned value management (EVM) basics

- Cost control and variance analysis

Day 7: Quality Management in Research

- Quality planning: standards and metrics
- Quality assurance: process audits
- Quality control: data validation, peer review
- Quality tools: checklists, cause-and-effect diagrams
- Research integrity: ethics, plagiarism, data falsification
- Continuous improvement in research processes

Day 8: Risk Management for Research Projects

- Risk identification techniques (brainstorming, SWOT, checklists
- Qualitative risk analysis: probability and impact matrix
- Quantitative risk analysis: Monte Carlo simulation, sensitivity analysis
- Risk response planning: avoid, transfer, mitigate, accept
- Risk register development
- Risk monitoring and control

Day 9: Communication and Stakeholder Management

- Stakeholder identification and analysis (power/interest grid
- Stakeholder engagement strategies
- Communication planning: what, when, how, to whom
- Communication channels: reports, presentations, meetings
- Managing difficult stakeholders
- Feedback and conflict resolution

Day 10: Data Management and Information Systems

- Data management plans
- Data collection tools: surveys, sensors, databases
- Data storage and backup solutions
- Data analysis software (SPSS, NVivo, GIS
- Data security and ethical handling
- Data governance and compliance (POPIA

Day 11: Research Ethics and Compliance

- Ethical principles: beneficence, non-maleficence, autonomy, justice
- Informed consent process
- Confidentiality and anonymity
- Ethics review boards and approval
- Ethical issues in data collection and publication
- Case studies of ethical breaches

Day 12: Report Writing and Dissemination

- Research report structure: abstract, introduction, methodology, results, discussion, conclusion
- Writing style and referencing (Harvard, APA
- Data visualization best practices
- Creating presentations and posters
- Publication strategies: journals, conferences, industry reports
- Intellectual property considerations

Day 13: Procurement and Contract Management

- Procurement planning: make-or-buy decisions
- Types of contracts: fixed-price, cost-reimbursable, time and materials
- Supplier selection and evaluation
- Contract administration and performance monitoring
- Change management and contract amendments
- Legal and regulatory compliance in procurement

Day 14: Team Leadership and Human Resource Management

- Team formation stages (Tuckman model
- Leadership styles in research settings
- Delegation and task assignment
- Conflict resolution strategies
- Motivation theories (Maslow, Herzberg
- Performance appraisal and feedback

Day 15: Monitoring, Evaluation, and Learning

- Developing KPIs and metrics
- Monitoring tools: dashboards, progress reports
- Evaluation methods: formative, summative
- Mid-project reviews and corrective actions
- Lessons learned sessions
- Knowledge management and organizational learning

Day 16: Technology and Innovation in Research Project Management

- Project management software overview
- Collaborative platforms (Slack, Teams, SharePoint
- Data analytics and visualization tools
- GIS and remote sensing in research
- AI and machine learning applications
- Innovation management in research projects

Day 17: Integration, Assessment, and Certification Preparation

- Capstone project presentations
- Peer and facilitator feedback
- Mock assessment and exam preparation
- Review of key concepts from all days
- Q&A; and clarification sessions
- Next steps: portfolio of evidence, certification process

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 7**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 61,900.00	**R 61,900.00**
1	In-House	R 80,400.00	**R 80,400.00**
1	On-Campus (Pretoria)	R 92,800.00	**R 92,800.00**

UPCOMING SESSIONS

Start	End	Method	Venue
06 Aug 2026	28 Aug 2026	On-Campus	Dubai, UAE
07 Aug 2026	31 Aug 2026	On-Campus	Pretoria, South Africa
07 Aug 2026	31 Aug 2026	On-Campus	Lagos, Nigeria
10 Aug 2026	01 Sep 2026	On-Campus	Durban, South Africa
10 Aug 2026	01 Sep 2026	On-Campus	Mauritius
11 Aug 2026	02 Sep 2026	On-Campus	Cape Town, South Africa
12 Aug 2026	03 Sep 2026	On-Campus	Dubai, UAE
13 Aug 2026	04 Sep 2026	On-Campus	Pretoria, 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 116350) 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.

Accredited Africa Training Institute for Capacity Development
Unit FO409, Hatfield Plaza, 1122 Burnett St, Hatfield 0028, Pretoria, Gauteng, South Africa
Tel: +27 12 004 8389 · WhatsApp: +27 65 077 6310 · apply@aaticd.co.za · www.aaticd.co.za