



**Comprehensive Guide to Programs,  
Enrollment, and Career Opportunities.**

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# 1. Introduction

**Trident Engineering Institute (TEI)** operates as a leading educational institution specializing in Building Information Modeling (BIM) and Facility Management (FM). **TEI** is a part of the **NEXIM International Development Organization (NIDO)**, a charitable organization registered in Canada, closely associated with **NEXIM HealthCare Consultants Inc. (NHCI)**, a leading Canadian healthcare services provider. Based out of Toronto, Ontario, **NIDO**'s mission encompasses the advancement of access to education, wildlife conservation, and the fight against climate change through environmental sustainability programs and green energy initiatives. It also promotes gender equality and social economic transformation. **NIDO** currently has active programs in East and Southern Africa.

**NIDO** is funded through a mix of grants and donations from benevolent individuals and organizations, as well as dividends or returns on its 10% grade-A shareholding in **NEXIM Healthcare Consultants Inc.(NHCI)**—a grant made possible by **NEXIM Healthcare**'s Board of Directors and founding shareholders. **NIDO** also raises funds through social enterprises carefully created to address pressing needs globally, with net funds going towards its social justice work. **Trident Engineering Institute** is one such entity, established to advance access to BIM training and equip Africa with skilled professionals to meet its **AEC-FM** human capital needs. **TEI** is committed to providing high-quality education within South Africa and the broader African continent, integrating advanced technology-driven fields such as BIM and FM to empower professionals in the Architecture, Engineering, Construction, and Facility Management (**AEC-FM**) sectors.

## Our Mission and Vision

- **Mission:** Trident Engineering Institute strives to empower professionals with advanced skills in BIM and FM, fostering innovation and excellence in the AEC-FM industries. This aligns with NIDO's broader goal of driving educational development and economic sustainability in Africa.
- **Vision:** To be a global leader in BIM and Facility Management education, shaping the future of the built environment and contributing to sustainable

practices in the AEC-FM industries across Africa and worldwide, in line with NIDO's overarching goals of environmental and social transformation.

## **NIDO's Impact**

NIDO operates across a range of sectors, including education, wildlife conservation, and climate change initiatives. While based in Canada, NIDO focuses its efforts on improving access to education, green energy technologies, and sustainable development in East and Southern Africa. As part of these efforts, Trident Engineering Institute provides specialized training to individuals in Africa, equipping them with the technical skills necessary to contribute to sustainable construction, infrastructure development, and facility management within their communities, while reducing dependence on expensive imported experts in this field.

## **Trident Engineering Institute's Role within NIDO**

Under NIDO's organizational structure, TEI is based in South Africa, offering accredited educational programs in BIM and FM to the wider African skilled trade and professional services market. Our focus on these disciplines allows us to address specific needs within the local and regional AEC-FM sectors, driving the adoption of sustainable building practices and modern project management methodologies. TEI's programs are designed to meet international standards, and our accreditations ensure that graduates are recognized within the global BIM and FM workforce.

## **Global Recognition and Accreditation**

Trident Engineering Institute is globally recognized for its commitment to excellence in education and training within the Architecture, Engineering, Construction, and Facility Management (AEC-FM) industries. As a key initiative under the **NEXIM International Development Organization (NIDO)**, a Canadian-registered charitable organization, Trident benefits from NIDO's extensive global network and partnerships.

Our programs are accredited by prestigious organizations, including:

- **Continuing Professional Development (United Kingdom) (CPD UK)**, ensuring our courses meet international standards for professional learning and development.
- **Engineering Council of South Africa (ECSA)**, certifying that our qualifications align with the highest engineering and technical standards.
- **South African Institute of Mechanical Engineers (SAIMEchE)**, recognizing our excellence in facility management and engineering education.

These accreditations allow our graduates to be recognized worldwide, positioning them for success in the global marketplace. By adhering to international education standards, Trident ensures that students not only receive top-quality education but are also equipped with skills that meet the demands of employers and industry stakeholders across the globe.

### **Our Relationship with NEXIM HealthCare Consultants Inc. (NHCI)**

As part of **NIDO**, **Trident Engineering Institute** benefits from the guidance, technical support, and human capital inputs from **NEXIM HealthCare Consultants Inc. (NHCI)**, one of Canada's leading healthcare services firms. Through this association, **TEI** integrates best practices from healthcare and sustainable development into our curriculum, particularly in project management, access to professional tutors, facility management, and sustainability. **NIDO's** commitment to community development and its strong ties with **NEXIM HealthCare Consultants Inc. (NHCI)** allow **TEI** to incorporate real-world expertise into our academic offerings. **TEI** also benefits from first-class access to key skills within the **NHCI** ecosystem, including corporate finance, product and system design, market access, networks, and innovation capabilities.

## Programs Offered by Trident Engineering Institute

TEI's focus is on high-demand fields in the AEC-FM industries, specifically:

- Professional Diploma in Advanced BIM Strategies and Facility Management
- Professional Diploma in BIM Management and Facility Systems Engineering
- Professional Diploma in BIM Architecture and Facility Management
- Bachelor of Science in BIM Management and Application
- Bachelor of Science in BIM for Facility Management

Each program is designed to address the growing need for skilled professionals capable of managing modern, technologically-driven construction projects and facility operations.

## Conclusion

As part of the NIDO umbrella, Trident Engineering Institute leverages the broader goals of **NEXIM International Development Organization** to deliver impactful education in South Africa, addressing the critical needs of the AEC-FM sectors. Our partnership with **NEXIM HealthCare Consultants Inc.** further reinforces our commitment to sustainability, innovation, and excellence in education. Through our accredited programs, we are shaping the future of facility management and construction industries, while contributing to the long-term environmental and social sustainability goals spearheaded by NIDO.

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## 2. Program Details

**Professional Diploma in Advanced BIM Strategies and Facility Management** - CPD (UK) CERTIFIED & ACCREDITED 8 WEEK SHORT COURSES  
(PRICING R 9,500 per Short Course) –

Short Course Code	Short Course Title	Description	Learning Outcomes	Assessment Methods
TBM-MAN2106	Teamwork through BIM/ BIM Teamwork	Enhances teamwork skills using BIM collaboration tools.	Implement BIM collaboration tools. Coordinate BIM tasks within a team. Resolve common collaboration issues in BIM projects.	Team projects, collaborative assignments, peer reviews.
TBM-MAN3106	BIM and CAM Integration/ BIM & CAM Amalgamation	Explores integration of BIM with CAM for improved project outcomes.	Integrate BIM with CAM effectively. Apply integration techniques in construction projects. Evaluate outcomes of BIM and CAM integration.	Integration projects, practical exams, case studies.
TBM-MAN2102	Intro to BIM	Provides comprehensive introduction to BIM principles and applications.	Describe fundamental BIM concepts. Identify key applications of BIM in architecture and construction. Implement basic	Written exams, project reports, practical assignments.

Short Course Code	Short Course Title	Description	Learning Outcomes	Assessment Methods
			BIM techniques in project scenarios.	
TBM-MAN2101	Architectural Visualization	Techniques for visualizing architectural designs using BIM tools.	Produce high-quality visualizations. Utilize BIM's visualization tools effectively. Present architectural designs with enhanced visual appeal.	Visualization projects, practical exams, portfolio reviews.
TBM-MAN1106	Construction Elements/ Construction and Beyond	Study of various construction elements and their integration in BIM.	Identify key construction elements in building projects. Integrate construction elements into BIM workflows. Evaluate the impact of construction elements on building design.	Written exams, practical assignments, project reports.
TFM-FM1105	Managing Content in Revit MEP	Techniques for managing content in Revit MEP.	Implement content management techniques in Revit MEP. Use Revit MEP tools for content	Content management projects, practical exams, case studies.

<b>Short Course Code</b>	<b>Short Course Title</b>	<b>Description</b>	<b>Learning Outcomes</b>	<b>Assessment Methods</b>
			management. Evaluate the effectiveness of content management in projects.	
TFM-FM2101	Facility Management Background	Comprehensive overview of facility management principles and practices.	Describe fundamental facility management concepts. Implement facility management practices. Evaluate the effectiveness of facility management practices.	Written exams, practical assignments, project reports.
TFM-FM2104	Sustainability Practices	Sustainable practices and their integration in facility management.	Describe fundamental sustainability concepts. Implement sustainable practices in facility management. Evaluate the impact of sustainability on facility operations.	Sustainability projects, practical exams, case studies.
TFM-FM3102	Technology in FM / BIM	Integration of BIM technology in	Describe fundamental BIM	BIM integration

<b>Short Course Code</b>	<b>Short Course Title</b>	<b>Description</b>	<b>Learning Outcomes</b>	<b>Assessment Methods</b>
	Technology for FM	facility management practices.	technology concepts. Implement BIM tools and techniques in facility management. Evaluate the outcomes of BIM technology integration in facility management.	projects, practical exams, case studies.
TFM-FM3105	COBie for FM	Use of COBie in facility management for improved data exchange and management.	Describe fundamental COBie concepts. Implement COBie in facility management. Evaluate the outcomes of COBie integration in facility management.	COBie projects, practical exams, case studies.

**Professional Diploma in BIM Management and Facility Systems  
Engineering – ECSA/ SAIMechE CERTIFIED & ACCREDITED 8 WEEK SHORT  
COURSES (PRICING R 9,500 per Short Course) -**

<b>Short Course Code</b>	<b>Short Course Title</b>	<b>Description</b>	<b>Learning Outcomes</b>	<b>Assessment Methods</b>
TBM-MAN1101	Autodesk Revit Fundamentals	Introduction to Autodesk Revit software focusing on the fundamentals of BIM.	Navigate the Revit interface with proficiency. Create and modify basic building components. Manage a simple BIM project from start to finish.	Quizzes, practical assignments, final project.
TBM-MAN1103	Basic Drawing & Modelling	Introduction to drawing and modeling techniques in Revit.	Produce accurate architectural drawings. Model simple structures using Revit. Integrate drawing and modeling in BIM workflows.	Drawing assignments, modeling projects, practical exams.
TBM-MAN1104	Advanced Modelling Techniques	Advanced techniques in Revit for complex modeling.	Apply advanced modeling techniques in Revit. Create detailed and complex architectural models. Address and resolve	Advanced modeling projects, practical exams, problem-solving assignments.

<b>Short Course Code</b>	<b>Short Course Title</b>	<b>Description</b>	<b>Learning Outcomes</b>	<b>Assessment Methods</b>
			complex modeling issues.	
TBM-MAN2103	Computer Simulations	Use of computer simulations in architectural design and BIM.	Conduct computer simulations for architectural projects. Analyze and interpret simulation data. Use simulations to enhance design quality.	Simulation projects, practical exams, data analysis assignments.
TBM-MAN2105	BIM for Messaging	Use of BIM for effective communication in construction projects.	Use BIM tools for effective communication. Improve project communication with BIM. Assess the effectiveness of BIM-based communication.	Communication projects, practical exams, case studies.
TBM-MAN3101	Synchronizing Construction	Techniques for synchronizing construction processes using BIM.	Apply synchronization techniques in construction projects. Integrate construction processes effectively with BIM. Evaluate the	Synchronization projects, practical exams, case studies.

Short Course Code	Short Course Title	Description	Learning Outcomes	Assessment Methods
			impact of synchronization on project success.	
TBM-MAN3102	Building Accuracy	Ensuring accuracy in BIM projects and construction documentation.	Apply accuracy techniques in BIM projects. Produce precise construction documentation. Evaluate the impact of accuracy on construction outcomes.	Accuracy projects, documentation reviews, practical exams.
TFM-FM1101	Autodesk Revit MEP Setup	Introduction to Autodesk Revit MEP software focusing on mechanical, electrical, and plumbing setup.	Navigate the Revit MEP interface proficiently. Set up and modify MEP components. Manage simple MEP projects using Revit.	Quizzes, practical assignments, final project.
TFM-FM1102	Mechanical Design Fundamentals	Basics of mechanical design in the context of facility management.	Describe fundamental mechanical design concepts. Apply mechanical design principles in facility management. Evaluate	Written exams, practical assignments, project reports.

Short Course Code	Short Course Title	Description	Learning Outcomes	Assessment Methods
			mechanical systems in facilities.	
TFM-FM2102	Planning and Budgeting	Techniques for effective planning and budgeting in facility management.	Implement effective planning techniques. Create and manage budgets for facility management. Evaluate the impact of planning and budgeting on facility operations.	Budgeting projects, practical exams, case studies.
TFM-FM2103	Real Estate Management	Principles and practices of real estate management within facility management.	Describe fundamental real estate management concepts. Implement real estate management practices in facility management. Evaluate the impact of real estate on facility management.	Written exams, practical assignments, project reports.
TFM-FM3101	Introduction to FM	Comprehensive overview of	Describe fundamental facility	Written exams, practical

Short Course Code	Short Course Title	Description	Learning Outcomes	Assessment Methods
		facility management principles and practices.	management concepts. Implement facility management practices effectively. Evaluate the outcomes of facility management practices.	assignments, project reports.
TFM-FM3104	Legal Aspects	Study of legal aspects related to facility management.	Describe fundamental legal principles in facility management. Implement legal knowledge in facility management scenarios. Evaluate the impact of legal issues on facility management.	Written exams, case studies, legal issue analyses.

**Professional Diploma in BIM Architecture and Facility Management –**  
 CIOB/ SAICE to award CERTIFICATION & ACCREDITATION TO THE 8 WEEK SHORT  
 COURSES (PRICING R 9,500 per course) -

<b>Short Course Code</b>	<b>Short Course Title</b>	<b>Description</b>	<b>Learning Outcomes</b>	<b>Assessment Methods</b>
TBM-MAN1105	3D Building Documentation	Techniques for creating comprehensive 3D building documentation.	Produce high-quality 3D building documentation. Incorporate documentation into BIM projects. Maintain accuracy in 3D documentation processes.	Documentation projects, practical exams, portfolio reviews.
TBM-MAN2104	BIM & External Visualization	Techniques for external visualization in BIM projects.	Produce high-quality external visualizations for BIM projects. Integrate external visualizations effectively. Present external visualization data with clarity.	Visualization projects, practical exams, data presentations.
TBM-MAN3103	Environmental Design	Study of environmental design principles and their integration in BIM.	Apply environmental design principles in BIM projects. Integrate sustainable practices in building	Environmental design projects, practical exams, case studies.

Short Course Code	Short Course Title	Description	Learning Outcomes	Assessment Methods
			designs. Evaluate the impact of environmental design on project outcomes.	
TBM-MAN3104	Software-Assisted Modelling	Advanced software tools for modeling in BIM.	Implement advanced software tools in BIM modeling. Create detailed and complex models with software assistance. Evaluate the effectiveness of software-assisted modeling.	Software modeling projects, practical exams, case studies.
TBM-MAN3105	BIM Documentation	Techniques for creating and managing BIM documentation.	Produce high-quality BIM documentation. Manage documentation workflows effectively. Evaluate the impact of documentation on project success.	Documentation projects, practical exams, case studies.
TFM-FM1103	Electrical Design Basics	Introduction to electrical design	Describe basic electrical design	Written exams, practical

<b>Short Course Code</b>	<b>Short Course Title</b>	<b>Description</b>	<b>Learning Outcomes</b>	<b>Assessment Methods</b>
		principles for facility management.	concepts. Implement electrical design principles in facility management. Evaluate electrical systems in facilities.	assignments, project reports.
TFM-FM1104	Intro to Plumbing Design	Basics of plumbing design for facility management.	Describe fundamental plumbing design concepts. Implement plumbing design principles in facility management. Evaluate plumbing systems in facilities.	Written exams, practical assignments, project reports.
TFM-FM2106	Emergency Preparedness	Principles and practices of emergency preparedness in facility management.	Describe fundamental emergency preparedness concepts. Implement emergency preparedness plans. Evaluate the effectiveness of emergency preparedness in	Emergency preparedness projects, practical exams, case studies.

Short Course Code	Short Course Title	Description	Learning Outcomes	Assessment Methods
			facility management.	
TFM-FM3103	Owner Guidelines	Development and application of owner guidelines in facility management.	Describe the importance of owner guidelines in facility management. Create comprehensive owner guidelines. Implement and assess the impact of owner guidelines on facility operations.	Guidelines development projects, practical exams, case studies.
TFM-FM2105	The Design-Build Cycle	Understanding the design-build process and its applications in facility management.	Describe the design-build process. Implement design-build principles in facility management projects. Evaluate the outcomes of design-build projects in facility management.	Design-build projects, practical exams, case studies.
TFM-FM2107	Facility Management Practice	Practical applications of facility	Implement facility management principles in	Practical projects, case studies,

<b>Short Course Code</b>	<b>Short Course Title</b>	<b>Description</b>	<b>Learning Outcomes</b>	<b>Assessment Methods</b>
		management principles.	practical settings. Develop and refine practical facility management skills. Evaluate the outcomes of facility management practices.	reflective essays.
TFM-FM3106	FM Case Studies	Analysis and evaluation of case studies in facility management.	Conduct comprehensive analyses of facility management case studies. Apply theoretical concepts to practical situations. Present and discuss case study findings effectively.	Case study projects, presentations, written reports.

**Bachelor of Science in BIM Management and Application – SAQA/ CHE to award CERTIFICATION & ACCREDITATION TO THE BACHELORS DEGREE (PRICING TBC) -**

*Program Structure*

<b>Module</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Description</b>
<b>Core Modules</b>	BIM101	Autodesk Revit Fundamentals	Introduction to the fundamentals of Autodesk Revit, focusing on basic modeling tools and principles.
	BIM102	Revit Collaboration & Teamwork	Focuses on collaborative tools and teamwork strategies in BIM projects.
	BIM103	Basic Drawing & Modelling	Provides foundational drawing and modeling skills in Revit.
	BIM104	Introduction to Building Information Modeling	Comprehensive overview of BIM principles and industry applications.
	BIM105	Advanced Modelling Techniques	Advanced techniques for creating complex architectural models in Revit.
	BIM106	3D Building Documentation	Techniques for creating detailed 3D building documentation using Revit.
	BIM107	Construction Elements	Study of various construction elements and their integration in BIM.
	BIM108	Virtual Industry Practicum I & Portfolio Development	Application of BIM skills in a virtual industry setting and portfolio development.

<b>Module</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Description</b>
<b>Advanced Modules</b>	BIM201	Architectural Visualization	Techniques for creating high-quality visualizations of architectural designs.
	BIM202	Computer Simulations	Use of computer simulations to enhance architectural design.
	BIM203	BIM & External Visualization	Techniques for visualizing external aspects of BIM projects.
	BIM204	Research Methods & Academic Communication	Introduction to research methods and effective academic communication in BIM.
	BIM205	BIM for Messaging	Enhancing communication skills using BIM tools.
	BIM206	Teamwork through BIM	Developing teamwork and collaboration skills using BIM.
	BIM207	Virtual Industry Practicum II & Portfolio Enhancement	Advanced virtual industry projects and portfolio development.
	BIM208	Introduction to Project Management	Fundamentals of project management in construction and BIM.
<b>Capstone Modules</b>	BIM301	Synchronizing Construction	Techniques for integrating and synchronizing construction activities with BIM.
	BIM302	Building Accuracy	Ensuring accuracy in BIM projects and construction documentation.
	BIM303	Environmental Design	Integrating environmental design principles into BIM projects.

Module	Course Code	Course Title	Description
	BIM304	Elective	Specialized study in a chosen area of BIM.
	BIM305	Software-Assisted Modelling	Advanced software tools for modeling in BIM.
	BIM306	BIM Documentation	Techniques for creating and managing BIM documentation.
	BIM307	BIM and CAM Integration	Integration of BIM and Computer-Aided Manufacturing.
	BIM308	Capstone Project	Culminating project demonstrating comprehensive understanding and application of BIM.

*Virtual Industry Practicums (WIL)*

- **Practicum I & Portfolio Development (BIM108):**
  - Students engage in virtual industry settings to apply theoretical knowledge.
  - Develop a professional portfolio showcasing their skills and projects.
- **Practicum II & Portfolio Enhancement (BIM207):**
  - Advanced industry projects to further enhance practical skills.
  - Continuous portfolio development to reflect growth and expertise.

**Bachelor of Science in BIM for Facility Management** – SAQA/ CHE to award CERTIFICATION & ACCREDITATION TO THE BACHELORS DEGREE (PRICING TBC) -

*Program Structure*

<b>Module</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Description</b>
<b>Core Modules</b>	FM101	Autodesk Revit MEP Setup	Introduction to Revit MEP software for mechanical, electrical, and plumbing design.
	FM102	Mechanical Design Fundamentals	Basics of mechanical design in facility management.
	FM103	Electrical Design Basics	Principles of electrical design for facility management.
	FM104	Intro to Plumbing Design	Basics of plumbing design for facility management.
	FM105	Managing Content in Revit MEP	Techniques for managing content in Revit MEP.
	FM106	Facility Management Fundamentals	Comprehensive overview of facility management principles and practices.
	FM107	Virtual Industry Practicum I & Portfolio Development	Application of facility management skills in a virtual industry setting.
	FM108	Introduction to Facility Operations	Basics of facility operations management.
<b>Advanced Modules</b>	FM201	Facility Management Background	Historical context and evolution of facility management.
	FM202	Planning and Budgeting	Effective planning and budgeting techniques in facility management.

<b>Module</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Description</b>
	FM203	Real Estate Management	Principles and practices of real estate management within facility management.
	FM204	Sustainability Practices	Sustainable practices and their integration in facility management.
	FM205	The Design-Build Cycle	Understanding the design-build process and its relevance to facility management.
	FM206	Emergency Preparedness	Principles and practices of emergency preparedness in facility management.
	FM207	Facility Management Practice	Practical applications of facility management principles.
	FM208	Virtual Industry Practicum II & Portfolio Enhancement	Advanced virtual industry projects and portfolio development.
<b>Capstone Modules</b>	FM301	Introduction to FM	Deep understanding of facility management concepts and their applications.
	FM302	Advanced FM Applications	Advanced techniques and applications in facility management.
	FM303	Energy Management in Facilities	Strategies for managing energy in facilities.
	FM304	Maintenance Strategies	Effective maintenance management strategies.
	FM305	BIM Integration in FM	Integration of BIM tools and techniques in facility management.

Module	Course Code	Course Title	Description
	FM306	Sustainable Facility Operations	Sustainable practices for facility operations management.
	FM307	Risk Management in FM	Risk management principles and their application in facility management.
	FM308	Capstone Project	Culminating project demonstrating comprehensive understanding and application of facility management.

*Virtual Industry Practicums (WIL)*

- **Practicum I & Portfolio Development (FM107):**
  - Students engage in virtual industry settings to apply theoretical knowledge.
  - Develop a professional portfolio showcasing their skills and projects.
  
- **Practicum II & Portfolio Enhancement (FM208):**
  - Advanced industry projects to further enhance practical skills.
  - Continuous portfolio development to reflect growth and expertise.

### 3. Corporate Partnerships and Bulk Enrollment

At **Trident Engineering Institute (TEI)**, we recognize the importance of strategic partnerships with corporations, government agencies, and educational institutions in building the next generation of skilled professionals in **Building Information Modeling (BIM)** and **Facility Management (FM)**. Our **Corporate Partnerships and Bulk Enrollment** programs are designed to offer tailored learning solutions to meet the specific needs of large groups, allowing organizations to enhance the skills of their workforce while benefiting from flexible enrollment options.

#### Key Benefits of Corporate Partnerships:

- *Customized Training Programs:* We work closely with your organization to develop training solutions that align with your specific objectives, whether it is upskilling your team in BIM technologies or implementing advanced facility management strategies.
- *Discounted Rates for Bulk Enrollments:* Organizations enrolling multiple participants in our professional diplomas or short courses are eligible for discounted rates. We offer scalable pricing structures depending on the number of participants.
- *Flexible Learning Schedules:* Understanding the demands of corporate environments, we offer flexibility in learning schedules, allowing employees to complete the courses at their own pace while maintaining productivity at work.
- *Dedicated Corporate Liaison Support:* Your organization will have a dedicated point of contact within our institute to manage all enrollment processes, customize training plans, and ensure smooth collaboration throughout the learning journey.
- *Global Certification and Accreditation:* Our programs are globally recognized by bodies such as **Continuing Professional Development (CPD UK)**, **Engineering Council of South Africa (ECSA)**, and **South African Institute of Mechanical Engineers (SAIMEchE)**. This ensures that your employees receive top-tier education that meets international standards.

## Partnership Opportunities:

We partner with a variety of industries, including:

- *AEC-FM (Architecture, Engineering, Construction, and Facility Management)* sectors, such as **construction firms, MEP (Mechanical, Electrical, and Plumbing), and HVAC (Heating, Ventilation, and Air Conditioning)** companies, that are seeking to upskill their teams in advanced **BIM strategies** and **sustainable building practices**.
- *Facility Management Companies* seeking training in the latest technologies and management techniques.
- *Government Agencies* aiming to enhance infrastructure management skills for public sector projects.
- *Real Estate Developers* who need expertise in BIM and FM to optimize project planning, design, and execution.

## How to Get Started:

If your organization is interested in exploring partnership opportunities or inquiring about bulk enrollment, please reach out to our **Head of Sales**. You can find the contact details on the **Contact Information** page of this document. Our Head of Sales will work with you to customize a training solution that fits your team's needs and objectives. Whether you are looking to enroll a small team or your entire workforce, we are here to help you navigate the future of BIM and Facility Management.

## 4. Enrollment Process

### Enrollment Process for Professional Diplomas and Short Courses

#### 1. Research and Selection:

- Visit the [Trident Engineering Institute website](#) to explore available short courses and professional diploma programs.
- Review the course descriptions, objectives, and outcomes to select the program that aligns with your career goals.

#### 2. Application Submission:

- **Online Application:**
  - Complete the online application form available on the institute's website.
  - Provide personal details, educational background, and professional experience.
- **Required Documents:**
  - Submit certified copies of academic transcripts and certificates.
  - Provide a detailed CV highlighting relevant work experience.
  - Include a personal statement or letter of motivation explaining why you want to enroll in the program.

#### 3. Recognition of Prior Learning (RPL):

- If you have prior learning or work experience relevant to the program, apply for RPL.
- Submit a portfolio of evidence demonstrating your competencies and experience.
- The admissions committee will review your portfolio and determine the credits you can earn through RPL.

#### 4. Application Review:

- The admissions committee reviews your application and supporting documents.
- If necessary, you may be contacted for additional information or an interview.

## 5. Admission Decision:

- Successful applicants will receive an offer letter detailing the next steps.
- Unsuccessful applicants will be notified and may receive feedback on their application.

## 6. Acceptance and Enrollment:

- Accept the offer by following the instructions provided in the offer letter.
- Complete the enrollment process by paying the required fees and submitting any additional documents.
- Attend an orientation session to get acquainted with the online learning platform and course structure.

## Enrollment Process for Bachelor of Science Degrees

### 1. Research and Selection:

- Explore the Bachelor of Science programs in BIM Management and Application, and BIM for Facility Management on the institute's website.
- Review program structures, course descriptions, and admission requirements to ensure they meet your career objectives.

### 2. Application Submission:

#### ○ Online Application:

- Fill out the online application form available on the institute's website.
- Provide detailed personal information, academic history, and work experience.

#### ○ Required Documents:

- Submit certified copies of your National Senior Certificate (NSC) or equivalent qualifications.
- Include a detailed CV and a personal statement or letter of motivation.
- Provide proof of English language proficiency if applicable.

### 3. Recognition of Prior Learning (RPL):

- If you have relevant prior learning or professional experience, apply for RPL.

- Submit a comprehensive portfolio of evidence showcasing your skills and knowledge.
- The RPL process will assess your portfolio to grant applicable credits.

#### **4. Application Review:**

- The admissions committee evaluates your application and supporting documents.
- Additional information or an interview may be required to assess your suitability for the program.

#### **5. Admission Decision:**

- Receive an offer letter if your application is successful, outlining the next steps.
- Unsuccessful applicants will be informed and may be provided with feedback on their application.

#### **6. Acceptance and Enrollment:**

- Accept the admission offer by following the instructions in the offer letter.
- Pay the necessary fees and submit any remaining documents to complete the enrollment.
- Attend an orientation session to get familiar with the blended learning model, including online coursework and Work Integrated Learning (WIL) components.

### *Orientation and Onboarding*

#### **1. Orientation Session:**

- Participate in an orientation session to learn about the institute's learning management system (LMS), course schedules, and resources.
- Meet faculty members and fellow students through virtual sessions.

#### **2. Access to Resources:**

- Gain access to online resources, including lecture notes, supplementary materials, and discussion forums.
- Set up your LMS account and familiarize yourself with its features.

#### **3. Support Services:**

- Learn about available support services, including academic advising, technical support, and career counseling.

#### **4. Start of Classes:**

- Begin your coursework as per the academic calendar.
  - Engage in online lectures, interactive assignments, and practical exercises.
- 

## **5. Support for Online Students**

### **Academic Support**

#### **1. Tutor Sessions:**

- Regular online tutoring sessions are available to help with course material.
- Tutors provide personalized guidance, answer questions, and assist with assignments.
- Additional tutor sessions can be arranged for in-depth support on challenging topics.

#### **2. Supplementary Academic Resources:**

- Access to supplementary academic videos covering essential topics such as research methods, plagiarism awareness, and study techniques.
- Online resources, including lecture notes, slides, and additional reading materials.

#### **3. Virtual Office Hours:**

- Instructors and tutors hold virtual office hours for one-on-one consultations.
- Opportunity to discuss course-related queries, seek advice on projects, and get feedback on assignments.

#### **4. Discussion Forums:**

- Online forums for students to engage with peers and instructors.

- Platforms for discussing course content, sharing ideas, and collaborating on group projects.

## **Technical Support**

### **1. 24/7 IT Helpdesk:**

- Dedicated IT support team available around the clock to assist with technical issues.
- Support for accessing the online learning platform, troubleshooting software problems, and resolving connectivity issues.

### **2. Learning Management System (LMS) Support:**

- Guidance on using the LMS effectively, including navigating the platform, submitting assignments, and accessing course materials.
- Tutorials and FAQs to help students familiarize themselves with the online learning environment.

## **Career and Professional Development**

### **1. Career Counselling:**

- Career guidance services to help students plan their career paths based on their background and interests.
- Assistance with resume writing, job search strategies, and interview preparation.
- Referrals to HPCSA registered career counsellors if needed.

### **2. Professional Networking:**

- Opportunities to connect with industry professionals through webinars, virtual networking events, and guest lectures.
- Access to an alumni network for mentorship and career advice.

## **Student Wellness and Support**

### **1. Mental Health and Well-being:**

- Access to online counselling services to support mental health and well-being.

- Resources and workshops on stress management, time management, and work-life balance.

## **2. Disability Support:**

- Accommodations and support for students with disabilities to ensure equal access to education.
- Use of assistive technologies and tailored support plans.

## **Community and Engagement**

### **1. Creating a Learning Community:**

- Encouragement of open communication and collaboration among students.
- Virtual social events and study groups to foster a sense of community and peer support.

### **2. Onboarding and Transition Support:**

- Comprehensive onboarding program to help new students transition into the online learning environment.
- Orientation sessions covering the use of online platforms, available resources, and tips for success.

## **At-Risk Student Support**

### **1. Early Detection and Intervention:**

- Monitoring of student progress to identify those at risk of falling behind.
  - Proactive outreach and support plans to help at-risk students stay on track.
  - Personalized action plans to address academic challenges and improve performance.
-

## 6. Technical Requirements

Requirement	Specification
<b>Hardware</b>	
Processor	Intel i5 or AMD Ryzen 5 or better
RAM	Minimum 8 GB (16 GB recommended)
Storage	Minimum 256 GB SSD or HDD (SSD recommended for faster access)
Graphics Card	Integrated graphics (Intel HD 620 or better) or dedicated graphics card (NVIDIA GTX 1050 or better)
Monitor	At least a 15-inch monitor (larger screen recommended for better visibility of detailed work)
Keyboard and Mouse	Standard keyboard and mouse or a laptop with a comfortable built-in keyboard and touchpad
Webcam	A built-in or external webcam for participating in video conferences and virtual office hours
Microphone and Speakers	Built-in microphone and speakers or external headset with microphone for clear audio during online sessions
Mobile Device	A smartphone or tablet with internet access for accessing course materials and participating in discussions on the go
<b>Software</b>	
Operating System	Windows 10 or later, macOS 10.15 (Catalina) or later, Linux (latest stable distribution with GUI optional)
Web Browser	Latest versions of Google Chrome, Mozilla Firefox, Safari, or Microsoft Edge; enable cookies and JavaScript
Productivity Software	Microsoft Office 365 (available for free to students) or Google Workspace (Docs, Sheets, Slides)
PDF Reader	Adobe Acrobat Reader or any PDF viewing software

<b>Requirement</b>	<b>Specification</b>
BIM and Design Software	Autodesk Revit; additional software such as AutoCAD, Navisworks, or SketchUp as required
<b>Internet</b>	
Speed	Minimum 10 Mbps download speed (25 Mbps or higher recommended for smooth streaming of video lectures and online collaboration)
Consistency	A stable and reliable internet connection to avoid disruptions during live sessions and assessments
Network Equipment	A modern, reliable router to ensure consistent Wi-Fi connectivity
Requirement	Specification
Network Equipment	A modern, reliable router to ensure consistent Wi-Fi connectivity
Backup Option	Access to a secondary internet connection (such as a mobile hotspot) as a backup in case of primary connection issues
<b>Additional Tools</b>	
Learning Management System (LMS)	Familiarity with the institute's LMS platform for accessing course materials, submitting assignments, and participating in discussions; ensure compatibility and regular updates to the LMS software
Video Conferencing	Zoom or Microsoft Teams for live lectures, virtual office hours, and group meetings; ensure you have the latest versions installed
Cloud Storage	Google Drive or OneDrive for storing and sharing coursework, projects, and collaboration with peers

# 7. Course Assessments

## Formative Assessments

Formative assessments are ongoing evaluations that occur throughout the course. They are designed to provide feedback and guide your learning process. These assessments typically include:

### 1. Quizzes:

- Short, periodic tests covering recent course material.
- Aim to reinforce learning and provide immediate feedback.
- Conducted online with instant results.

### 2. Practical Assignments:

- Hands-on tasks requiring application of theoretical knowledge.
- Include creating models, drafting plans, or using BIM software.
- Focus on developing practical skills relevant to your course.

### 3. Case Studies:

- In-depth analysis of real-world scenarios related to course topics.
- Encourage critical thinking and application of knowledge to solve problems.
- Often involve group discussions and presentations.

## Summative Assessments

Summative assessments are comprehensive evaluations conducted at the end of the course or module. They measure your overall understanding and mastery of the subject matter. These assessments typically include:

### 1. Final Projects:

- Capstone projects synthesizing course content into a cohesive output.
- Require extensive application of skills and knowledge gained during the course.
- Often involve a written report and a practical component (e.g., a BIM model).

## 2. **Practical Exams:**

- Hands-on exams demonstrating proficiency in using software or tools.
- Focus on practical skills and the ability to perform specific tasks.

## 3. **Written Exams:**

- Traditional exams testing theoretical understanding of the course material.
- Include multiple-choice questions, short answers, and essay questions.

## **Cross-Critical Outcomes**

Assessments aim to develop critical skills applicable across various fields. Key cross-critical outcomes include:

### 1. **Problem-Solving:**

- Assessments challenge you to find solutions to complex issues.
- Encourage creative thinking and application of knowledge.

### 2. **Teamwork:**

- Group assignments and projects developing your ability to work effectively in teams.
- Focus on collaboration, communication, and leadership skills.

### 3. **Self-Management:**

- Tasks requiring management of time, resources, and learning process effectively.
- Develop skills in planning, organizing, and self-assessment.

### 4. **Information Analysis:**

- Assignments involving gathering, analyzing, and interpreting data.
- Enhance ability to make informed decisions based on evidence.

### 5. **Effective Communication:**

- Assessments requiring clear and concise communication of ideas.
- Include written reports, presentations, and discussions.

## 6. Understanding Systems:

- Tasks developing understanding of relationships between various components of a system.
- Focus on systems thinking and holistic approaches to problem-solving.

## Continuous Feedback

Throughout the course, you will receive continuous feedback on your performance. This feedback helps identify areas for improvement and guides your learning journey. Tutors are available to provide additional support and answer any questions you may have.

## Support and Resources

- **Tutoring Sessions:** Additional tutor sessions available for personalized support.
  - **Supplementary Videos:** Access to academic information videos on topics like research methods and plagiarism awareness.
  - **Learning Community:** Engage with peers and tutors through online forums and group discussions.
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## 8. Career Paths

### Career Paths for Graduates of Professional Diplomas and Short Courses

Professional Diploma	Potential Career Paths
Advanced BIM Strategies and Facility Management	BIM Coordinator, Facility Manager, Sustainability Consultant, Revit Technician
BIM Management and Facility Systems Engineering	BIM Manager, MEP Engineer, Project Manager, Construction Technologist
BIM Architecture and Facility Management	Architectural Technologist, Building Information Specialist, Facility Operations Manager, Visualization Specialist

### Career Paths for Graduates of Bachelor of Science Degrees

Bachelor of Science Degree	Potential Career Paths
BIM Management and Application	BIM Project Manager, Digital Construction Manager, BIM Consultant, Construction Manager
BIM for Facility Management	Facility Management Director, Energy Manager, Maintenance Manager, Building Performance Analyst

### Additional Career Opportunities

Career Opportunity	Description
Research and Development	Roles in developing new BIM technologies and methodologies to advance the industry.
Education and Training	Opportunities in academia as instructors or trainers, teaching BIM and facility management principles.

Career Opportunity	Description
Consulting	Independent consultants providing specialized BIM and facility management services to clients.
Government and Regulatory Agencies	Roles in policy development, regulatory compliance, and public sector projects requiring expertise in BIM and facility management.

## Summary

Graduates from Trident Engineering Institute are well-prepared to take on diverse and rewarding roles in the AEC-FM industries. The combination of theoretical knowledge and practical experience gained through the institute’s programs equips graduates with the skills needed to excel in their chosen career paths. For more information on career services and job placement support, please visit the [Trident Engineering Institute website](#) or contact the career services office.

## 9. Contact Information

For further details or assistance with your application, please contact the admissions office:

Department	Contact Information
Admissions Office	Email: <a href="mailto:abdul@trident.education">abdul@trident.education</a>
	Phone: +256 77 404 7009
	Address: Watershed, 17 Dock Street, V&A Waterfront, Cape Town, 8001, Republic of South Africa
Career Services	Email: <a href="mailto:abdul@trident.education">abdul@trident.education</a>
IT Support	Email: <a href="mailto:camilla@trident.education">camilla@trident.education</a>
	Phone: +27 (83) 389 9809 Office: +27 (21) 001 7719
Sales Inquiries  (For bulk enrollment, partnerships, or custom corporate training solutions)	Email: <a href="mailto:dfox@trident.education">dfox@trident.education</a>
	Phone: +27 (73) 839 7122 +27 (21) 001 7719
General Inquiries	Email: <a href="mailto:camilla@trident.education">camilla@trident.education</a>
	Phone: +27 (83) 389 9809 Office +27 (21) 001 7719

Trident Engineering Institute is dedicated to supporting prospective and current students through their academic journey. For any inquiries or further information, please reach out to the respective department.