SCHOOL OF Engineering

Shape the future with RP School of Engineering (SEG), where bold ideas become reality.

Master the technical skills and creative thinking needed to engineer impactful solutions for tomorrow's challenges. From robotics and sustainability to smart systems and automation, SEG empowers you to pioneer innovation and make a lasting difference while driving #GreaterImpact in a rapidly evolving world.

- Common Engineering Programme
- Diploma in Aerospace Engineering
- Diploma in Aviation Management
- Diploma in Business Process & Engineering Management
- Diploma in Electrical & Electronic Engineering
- Diploma in Engineering
- Diploma in Mobility & Robotic Systems
- Diploma in Supply Chain Management
- Diploma in Sustainable Built Environment

Common Engineering Programme

Stay flexible and keep your options open as you explore infinite possibilities in engineering.

Unsure which engineering field to specialise in? The Common Engineering Programme is your ideal starting point. This programme allows you to explore your interests and gain a comprehensive understanding of the various engineering diplomas offered by the School of Engineering. Enjoy the flexibility of up to one year to make an informed decision on the specific diploma that best suits your passion and career goals.

Scan to learn more

- Discover diverse engineering opportunities and unlock pathways to innovation, problem-solving, and impactful careers in various industries
- Gain extra time to explore interests and make informed decisions before specialising in an engineering field, ensuring the best fit for your career
- Build a strong foundation with first-semester modules and activities, preparing you for deeper learning in engineering

WHAT YOU WILL LEARN

General Modules

- Critical Thinking and Problem Solving Skills
- Designing Your Impact
- Designing Your Life (Future-Ready I)
- Designing Your Life (Personal Growth I)
- Effective Workplace Communication
- Innovation and Practice
- Singapore, the World and I

Discipline Modules

Semester 1

You will take the following modules:

- Data Visualisation and Analysis for Engineering
- Engineering Design
- Engineering Mathematics
- Fundamentals of Unmanned Systems

At the **end of Semester 1**, you will opt for one of the following diplomas/clusters:

- Aerospace Engineering (R40)
- Aviation Management (R39)
- Business Process & Engineering Management (R11)
- Electrical & Electronic Engineering (R50)
- Engineering (R56)
- Mobility & Robotic Systems (R54)
- Supply Chain Management (R21)
- Sustainable Built Environment (R61)
- *Engineering Cluster*
- *Engineering Management Cluster*

Semester 2

If you choose to enter the ***Engineering Cluster***, you will take the following modules:

- Electrical and Electronic Fundamentals
- Fundamentals of Industrial Internet of Things
- Principles of Mechanics
- Programming for Engineering

You will opt for one of the following **diplomas at the end of semester 2**:

- Aerospace Engineering
- Electrical & Electronic Engineering
- Engineering
- Mobility & Robotic Systems
- Sustainable Built Environment

If you choose to enter the ***Engineering Management Cluster***, you will take the following modules:

- Fundamentals of Industrial Internet of Things
- Operations Planning
- Programming for Engineering
- Statistical Methods for Engineering

You will opt for one of the following **diplomas at the end of semester 2**:

- Aviation Management
- Business Process & Engineering Management
- Engineering
- Supply Chain Management

After being placed in one of the SEG diploma programmes, you will study the modules specific to that programme.

"I am a proud graduate of RP, where I enrolled in the Common Engineering Programme after completing my studies at Queensway Secondary. RP became the launchpad for my aspirations. Its hands-on, Problem-based Learning helped me build strong fundamentals in engineering, critical thinking and teamwork. Those skills empowered me to pursue a degree in business and apply engineering concepts in real-world settings. RP gave me confidence, clarity of purpose and #GreaterPossibilities."

GOH CHEH WEI
2022 Graduate

R40

DIPLOMA IN
Aerospace Engineering

Launch your journey to becoming a Licensed Aircraft Engineer.

Get off to a flying start in the aerospace sector with this diploma approved by the Civil Aviation Authority of Singapore. Gain hands-on experience by training on an actual aircraft in our hangar, mastering aircraft maintenance and building a firm foundation in global aviation regulations. Begin your journey towards becoming a Licensed Aircraft Engineer.

Scan to learn more

- Gain foundational expertise in aircraft structural and engine maintenance and repair, while mastering aerospace engineering complexities and safety protocols for industry readiness
- Receive robust training from a SAR-147 Approved Maintenance Training Organisation, ensuring you meet industry standards for aviation excellence
- Undergo a 20-week Industry Immersion Programme with Pratt & Whitney, StandardAero, ST Engineering Aerospace, and others, or 24 weeks of Aerospace Engineering Skills Training

WHAT YOU WILL LEARN

General Modules

- Critical Thinking and Problem Solving Skills
- Designing Your Impact
- Designing Your Life (Future-Ready I)
- Designing Your Life (Future-Ready II)
- Designing Your Life (Personal Growth I)
- Designing Your Life (Personal Growth II)
- Effective Workplace Communication
- Innovation and Practice
- Singapore, the World and I

Discipline Modules

- Aerodynamics and Propulsion
- Aircraft Inspection
- Airframe Structures and Engine Systems
- Aviation Legislation and Human Factors
- Aviation Maintenance Practices
- Data Visualisation and Analysis for Engineering
- Digital Techniques and Electronic Instrument Systems
- Digital Techniques and Electronic Instrument Systems II
- Electrical and Electronic Fundamentals
- Electrical and Electronic Fundamentals II
- Engineering Design
- Engineering Materials
- Engineering Mathematics
- Fundamentals of Industrial Internet of Things
- Fundamentals of Unmanned Systems
- Principles of Mechanics
- Programming for Engineering
- Thermofluids

Elective Modules

Customise your learning pathways by selecting **ONE** of the following options:

Option A: Select Elective modules totalling 12 Modular Credits (MCs) from the list of modules in the Minor programmes that are applicable to the Diploma and/or from the modules listed below:
- Aircraft Hardware
- Operations Planning
- Statistical Methods for Engineering

Option B: Select a Minor Programme

Option C: Select a CET-based Certificate programme and/or Elective module(s) from the list of modules in the Minor programmes that are applicable to the Diploma (only for eligible students)

Industry Orientation Programme Modules

Option 1: One-Semester Industry Immersion Programme
- Project

And select one module from the list below:
- Aerospace Engineering Skills Training
- Corporate Innovation Immersion Programme
- Entrepreneurial Immersion Programme
- Industry Immersion Programme

Option 2: Two-Semester Industry Immersion Programme
- Industry Immersion Programme or Industry Immersion Programme (Special Programme)
- Industry Immersion Programme II

CAREER OPPORTUNITIES

With a solid foundation in technical skills, you are poised to take up a comprehensive range of careers in the aviation industry. You can pursue opportunities in roles such as:

- Aircraft Avionics System Specialist
- Airframe and Engine Inspector
- Assistant Engineer
- Fleet Management Planner
- Licensed Aircraft Engineer
- Material/Production Planner
- Non-Destructive Testing Inspector
- Quality Control Inspector
- Technical Support Personnel
- Workshop Engineer

“My time at RP extended far beyond academic learning. It offered diverse opportunities to cultivate new skills, including earning a Bronze Medal at WorldSkills Singapore 2023. The dedicated and experienced lecturers not only equipped me with essential skills but also deepened my understanding of the aviation sector. RP played a pivotal role in solidifying my career aspirations and opened the door to #GreaterPossibilities in the world of aerospace.”

STYRON CHIA ZHEN YU
2024 Graduate

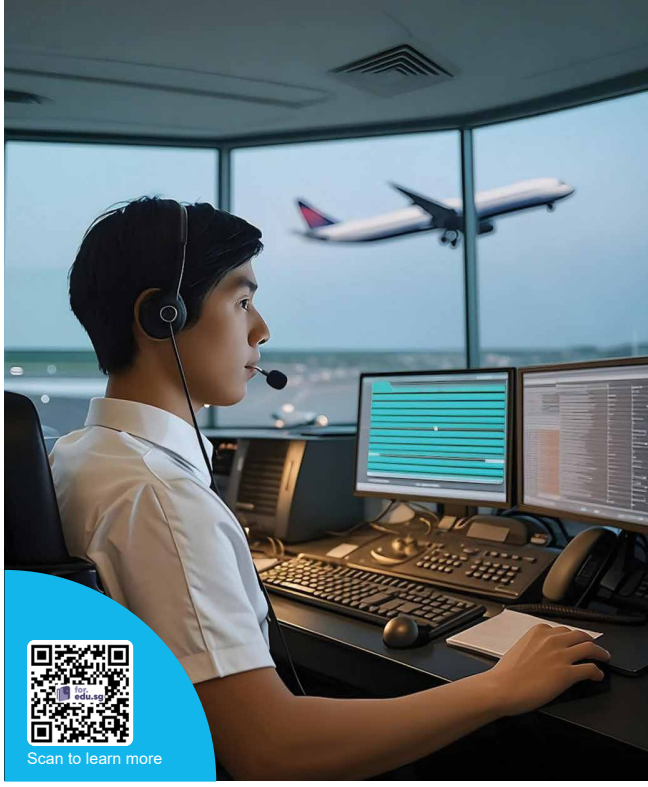
DIPLOMA IN

Aviation Management

Take flight with a career in aviation and explore airport, airline, and air traffic operations through hands-on industry experience.

Soar to new heights in aviation! Develop industry-relevant skills valued by airlines and airports. Experience the thrill of flight in our DA40 simulators and step into the shoes of an air traffic controller in our Virtual Aerodrome Laboratory.

- Master flight operations, air traffic control, and terminal management, gaining essential knowledge in aircraft systems, airport operations, and aviation safety for a successful aviation career
- Explore how planes, airports, and airlines work together to keep air travel safe and efficient. From managing flight paths and air traffic to understanding airport operations and airline services, you will gain the knowledge and skills needed to be part of the exciting aviation industry
- Experience the air transport industry with a 20-week Industry Immersion, gaining valuable skills and professional exposure at Changi Airport Group, dnata, SATS, and Singapore Airlines



Scan to learn more

WHAT YOU WILL LEARN

General Modules

- Critical Thinking and Problem Solving Skills
- Designing Your Impact
- Designing Your Life (Future-Ready I)
- Designing Your Life (Future-Ready II)
- Designing Your Life (Personal Growth I)
- Designing Your Life (Personal Growth II)
- Effective Workplace Communication
- Innovation and Practice
- Singapore, the World and I

Discipline Modules

- Airline Operations
- Airport Management
- Airport Planning and Design
- Airside Operations and Air Traffic Management
- Data Visualisation and Analysis for Engineering
- Distribution and Transportation
- Engineering Cost Decisions
- Engineering Design
- Engineering Mathematics
- Flight Operations Management
- Fundamentals of Industrial Internet of Things
- Fundamentals of Unmanned Systems
- General Aircraft Systems
- Human Factors and Aviation Safety
- Operations Planning
- Programming for Engineering
- Statistical Methods for Engineering
- Warehousing and Storage

Elective Modules

Customise your learning pathways by selecting **ONE** of the following options:

Option A: Select Elective modules totalling 12 Modular Credits (MCs) from the list of modules in the Minor programmes that are applicable to the Diploma and/or from the modules listed below:
- Electrical and Electronic Fundamentals
- Principles of Mechanics

Option B: Select a Minor Programme

Option C: Select a CET-based Certificate programme and/or Elective module(s) from the list of modules in the Minor programmes that are applicable to the Diploma (only for eligible students)

Industry Orientation Programme Modules

Option 1: One-Semester Industry Immersion Programme
- Project

And select one module from the list below:
- Corporate Innovation Immersion Programme
- Entrepreneurial Immersion Programme
- Industry Immersion Programme

Option 2: Two-Semester Industry Immersion Programme
- Industry Immersion Programme or Industry Immersion Programme (Special Programme)
- Industry Immersion Programme II

CAREER OPPORTUNITIES

With a strong grounding in aviation knowledge and hands-on experience, you'll be well-prepared to explore diverse career pathways across the air transport sector. Opportunities include roles such as:

- Air Operations Centre Manager
- Air Traffic Control Officer
- Airline Flight Controller
- Airside Duty Manager
- Airside Officer
- Cabin Crew
- Customer Services Officer
- Duty Terminal Manager
- Ground Services Officer
- Passenger Services Officer
- Pilot

"RP's Diploma in Aviation Management was pivotal in my self-discovery journey. It significantly broadened my understanding of the aviation industry, far beyond just flights and airports. This comprehensive diploma, with its Problem-based Learning approach, not only deepened my passion for aviation but also incredibly helped me discover a variety of career opportunities within and beyond the aviation sector. Most importantly, it empowered me to make a #GreaterImpact in a dynamic and ever-changing world."

LOH JING YAO
2025 Graduate

DIPLOMA IN

Business Process & Engineering Management

Transform data into smart decisions to drive business success and operations excellence.

Become the driving force behind business operations across multiple sectors. Develop the expertise to design, improve, optimise, and manage company processes and resources. You will gain practical experience on data-driven decision-making process, human factors applications, process optimisation, and modelling to enhance efficiency, improve productivity, and boost profitability for businesses. Be prepared for diverse careers, excelling in business process and operations management roles across various industries. Unlock your potential and drive business success!

- Build a strong career foundation with hands-on business and engineering experience, giving you a unique edge over other business diploma holders
- Attain industry-relevant certifications like Certified AutoCAD Professional and UiPath Academic Diploma, enhancing your career prospects
- Learn from McKinsey, Nestlé, IKEA, OCBC, PSA, Seagate, Select Group, Rolls-Royce, and Zenxin Agri-Organic, gaining industry insights and real-world experience through collaboration and immersion programmes

WHAT YOU WILL LEARN

General Modules

- Critical Thinking and Problem Solving Skills
- Designing Your Impact
- Designing Your Life (Future-Ready I)
- Designing Your Life (Future-Ready II)
- Designing Your Life (Personal Growth I)
- Designing Your Life (Personal Growth II)
- Effective Workplace Communication
- Innovation and Practice
- Singapore, the World and I

Discipline Modules

- Business Process Management
- Data Visualisation and Analysis for Engineering
- Distribution and Transportation
- Engineering Cost Decisions
- Engineering Design
- Engineering Mathematics
- Fundamentals of Industrial Internet of Things
- Fundamentals of Unmanned Systems
- Human Factors Engineering
- Inventory Management
- Lean and Six Sigma
- Operations Planning
- Production Planning and Facilities Layout
- Programming for Engineering
- Project Management
- Quality and Reliability Engineering
- Statistical Methods for Engineering
- Systems Modelling and Decision Analytics

Elective Modules

Customise your learning pathways by selecting **ONE** of the following options:

Option A: Select Elective modules totalling 12 Modular Credits (MCs) from the list of modules in the Minor programmes that are applicable to the Diploma and/or from the modules listed below:
- Electrical and Electronic Fundamentals
- Principles of Mechanics

Option B: Select a Minor Programme

Option C: Select a CET-based Certificate programme and/or Elective module(s) from the list of modules in the Minor programmes that are applicable to the Diploma (only for eligible students)

Industry Orientation Programme Modules

Option 1: One-Semester Industry Immersion Programme
- Project

And select one module from the list below:
- Corporate Innovation Immersion Programme
- Entrepreneurial Immersion Programme
- Industry Immersion Programme

Option 2: Two-Semester Industry Immersion Programme
- Industry Immersion Programme or Industry Immersion Programme (Special Programme)
- Industry Immersion Programme II

CAREER OPPORTUNITIES

You can seek fulfilling careers across a wide spectrum of industries and government agencies in roles such as:

- Business/Planning Executive
- Business Process Analyst
- Demand/Material/Production Planner
- Industrial Engineering Specialist
- Logistics/Supply Chain/Procurement Executive
- Operations Executive
- Productivity/Operations Excellence Team Lead
- Project Manager
- Quality Technologist
- Facilities/Safety Officer
- Any other roles related to Business Process/ Operations Management

"All the lecturers in my course, left a deep impact on me during my time in RP. I came to realise how genuinely supportive they are and how much they want us to grow. They constantly guided us to broaden our understanding, and their dedication gave my learning journey meaning and purpose. Their support made my experience at RP truly enriching and fulfilling, helping me discover my #GreaterPurpose."

JAVIER TAN JING YANG
2025 Graduate

R50

DIPLOMA IN

Electrical & Electronic Engineering

Make your mark as a problem-solver in the technical realm of electrical and electronic engineering.

Spark your enthusiasm for all things electrical and electronic and get wired for a bright future! Gain a broad education that gives you flexibility across a range of key growth areas, from communications to microelectronics.

- Participate in R&D projects with industry leaders, gaining valuable experience and expanding your professional network for stronger career prospects
- Gain a broad-based foundation and flexibility to choose between Communications or Microelectronics Majors, preparing you for diverse technology careers
- Embark on a 20-week Industry Immersion, with optional 16-week extension, at companies like GlobalFoundries, Micron, Panasonic, Rohde & Schwarz, Sennheiser, Signify, and Singtel—gaining practical skills and industry connections

Scan to learn more

WHAT YOU WILL LEARN

General Modules

- Critical Thinking and Problem Solving Skills
- Designing Your Impact
- Designing Your Life (Future-Ready I)
- Designing Your Life (Future-Ready II)
- Designing Your Life (Personal Growth I)
- Designing Your Life (Personal Growth II)
- Effective Workplace Communication
- Innovation and Practice
- Singapore, the World and I

Discipline Modules

- Circuit Analysis and Control
- Data Visualisation and Analysis for Engineering
- Digital Electronics
- Electrical and Electronic Fundamentals
- Engineering Design
- Engineering Mathematics
- Fundamentals of Industrial Internet of Things
- Fundamentals of Unmanned Systems
- Principles of Mechanics
- Programming for Engineering

Major Modules

Major in Communications

- Artificial Intelligence in Engineering
- Communication Systems
- Data Communications
- Electronic Design and Development
- Electronic Devices and Circuits
- Embedded Systems
- Microcontroller Systems
- Mobile Communications

Major in Microelectronics

- Artificial Intelligence in Engineering
- Electronic and Semiconductor Materials
- Electronic Design and Development
- Electronic Devices and Circuits
- Measurement Techniques and Failure Analysis
- Microcontroller Systems
- Thin Film Technology
- Wafer Fabrication and Packaging

Elective Modules

Customise your learning pathways by selecting **ONE** of the following options:

Option A: Select Elective modules totalling 12 Modular Credits (MCs) from the list of modules in the Minor programmes that are applicable to the Diploma and/or from the modules listed below:

- Integrated Circuit Design and Layout
- Statistical Methods for Engineering
- Operations Planning

Option B: Select a Minor Programme

Option C: Select a CET-based Certificate programme and/or Elective module(s) from the list of modules in the Minor programmes that are applicable to the Diploma (only for eligible students)

Industry Orientation Programme Modules

Option 1: One-Semester Industry Immersion Programme

- Project

And select one module from the list below:

- Corporate Innovation Immersion Programme
- Entrepreneurial Immersion Programme
- Industry Immersion Programme

Option 2: Two-Semester Industry Immersion Programme

- Industry Immersion Programme or Industry Immersion Programme (Special Programme)
- Industry Immersion Programme II

CAREER OPPORTUNITIES

Upon graduation, you'll unlock exciting career opportunities across a wide range of key industries — including Communications and Internet of Things, Semiconductor Design, Manufacturing and Packaging, and more — where your skills will be in high demand:

- Assistant Engineer (Electrical/Electronics)
- Assistant Equipment Engineer
- Assistant Facility Engineer
- Assistant Integration Engineer
- Assistant Process Engineer
- Assistant Product Engineer
- Assistant Quality Engineer

"RP equipped me with the skills and experience needed to be industry-ready by providing opportunities to apply my knowledge in a simulated work setting. The diploma not only gave me essential engineering skills aligned with real-world professional demands but also helped me develop practical abilities crucial for success in dynamic industries. The knowledge and skillsets I gained at RP were instrumental in helping me secure the Singapore-Industry Scholarship (SgIS) for my degree studies at the School of EEE, NTU. More than that, RP inspired me to pursue a #GreaterPurpose through engineering innovation."

KHAIRUNNISA BINTE HAZMAN
2023 Graduate

DIPLOMA IN Engineering

Explore your career options as a visionary design engineer, strategic project manager, or sustainability technology expert!

Build a strong foundation in design, programming, data analysis, and Industrial Internet of Things. Specialise in Innovation & Design, Project Management, or Sustainable Technology to prepare you for high-demand engineering careers and further enhance your expertise with a minor in business or entrepreneurship.

- Gain broad-based knowledge and the flexibility to specialise in three Majors: Innovation & Design, Project Management, or Sustainable Technology, broadening your career prospects
- Tailor your curriculum by choosing modules in programming, automation, business processes, and supply chain management, aligning your studies with your engineering interests
- Add to your skills and expertise by pursuing minor programmes such as business or entrepreneurship or by undergoing a one-year internship programme

WHAT YOU WILL LEARN

General Modules
- Critical Thinking and Problem Solving Skills
- Designing Your Impact
- Designing Your Life (Future-Ready I)
- Designing Your Life (Future-Ready II)
- Designing Your Life (Personal Growth I)
- Designing Your Life (Personal Growth II)
- Effective Workplace Communication
- Innovation and Practice
- Singapore, the World and I

Discipline Modules
- Data Visualisation and Analysis for Engineering
- Engineering Design
- Engineering Mathematics
- Fundamentals of Industrial Internet of Things
- Fundamentals of Unmanned Systems
- Programming for Engineering

Major Modules
Major in Project Management
- Engineering Cost Decisions
- Innovation and Design Thinking
- Lean and Six Sigma
- Operations Planning
- Procurement and Supplier Development
- Project Management
- Statistical Methods for Engineering
- Technologies for Integrated Digital Delivery

Major in Innovation and Design
- Computer Aided Design
- Digital Electronics
- Electrical and Electronic Fundamentals
- Electronic Design and Development
- Innovation and Design Thinking
- Mechatronic Systems and Design
- Principles of Mechanics
- Product Design and Prototyping

Major in Sustainable Technology
- Building Information Modelling
- Electrical and Electronic Fundamentals
- Energy Management and Sustainability
- Environmental Management and Assessment
- Green Building Technology and Design
- Principles of Mechanics
- Resource Management and Circular Economy
- Smart Facilities Management

Elective Modules
Customise your learning pathways by selecting a **minimum of 16** Modular Credits (MCs) from this list:
- Artificial Intelligence in Engineering
- Automation Systems
- Business Process Management
- Circuit Analysis and Control
- Distribution and Transportation
- Electrical and Electronic Fundamentals
- Electronic Devices and Circuits
- Engineering Materials
- Human Factors Engineering
- Inventory Management
- IT for Supply Chain Management
- Microcontroller Systems
- Operations Planning
- Principles of Mechanics
- Sensor Systems
- Statistical Methods for Engineering
- Supply Chain Management

AND select ONE of the following options (up to 12 MCs):

Option A: Select the remaining Elective modules from the list of modules in the Minor programmes that are applicable to the Diploma

Option B: Select a Minor Programme

Option C: Select a CET-based Certificate programme and/or Elective module(s) from the list of modules in the Minor programmes that are applicable to the Diploma (only for eligible students)

Industry Orientation Programme Modules
Option 1: One-Semester Industry Immersion Programme
- Project

And select one module from the list below:
- Corporate Innovation Immersion Programme
- Entrepreneurial Immersion Programme
- Industry Immersion Programme

Option 2: Two-Semester Industry Immersion Programme
- Industry Immersion Programme or Industry Immersion Programme (Special Programme)
- Industry Immersion Programme II

CAREER OPPORTUNITIES

You can look forward to excellent career prospects across a wide range of digital and electronics industries in roles such as:

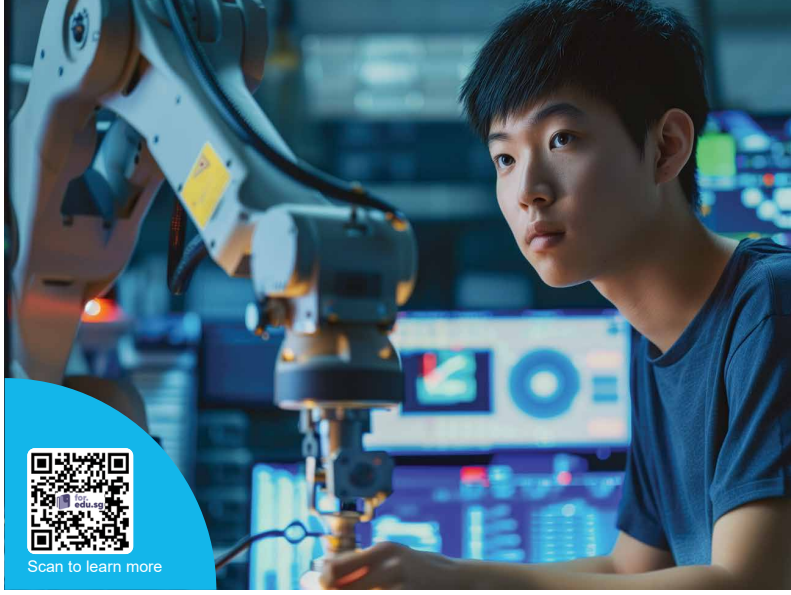
- Assistant Design Engineer (Innovation & Design)
- Assistant Facilities Engineer (Sustainable Technology)
- Assistant Product Engineer (Innovation & Design)
- Assistant Project Engineer (Project Management)
- Assistant Sustainable Product Engineer (Sustainable Technology)
- Project Executive/Coordinator (Project Management)
- Sales Engineer/Executive
- Scheduler/Planner (Project Management)
- Any other roles related to Project Management, Engineering Design and Sustainable Technology

"From the moment I stepped into RP, I knew I found the perfect blend of engineering and business that matched my interests. Though I feared the unknown, embracing challenges became one of my best decisions. RP opened doors to endless opportunities and helped me grow into a more confident, capable #GreaterMe."

KHOO KIAT CHING
2025 Graduate

DIPLOMA IN

Mobility & Robotic Systems



Scan to learn more

Equip yourself with in-depth training for dynamic roles in transportation and automation/robotic industries.

Gain extensive knowledge and skills in mobility and robotic systems through the Diploma in Mobility & Robotic Systems. Explore key areas such as intelligent mobility systems and robotic platforms for transporting people and cargo. This programme prepares you for in-demand functional roles within the dynamic and technology-intensive transportation and automation industry sectors.

- Gain in-demand skills for high-growth sectors like urban land transport, self-driving cars, automation, and robotics, boosting your career opportunities
- Equip yourself with skills relevant to logistics, intelligent systems, and urban land transportation, expanding your versatility across multiple industries
- Gain a career head start with a 20-week Industry Immersion Programme, plus an optional 16-week extension, at LTA, SBS Transit, SMRT, Omron, SICK, Siemens, and more

WHAT YOU WILL LEARN

General Modules

- Critical Thinking and Problem Solving Skills
- Designing Your Impact
- Designing Your Life (Future-Ready I)
- Designing Your Life (Future-Ready II)
- Designing Your Life (Personal Growth I)
- Designing Your Life (Personal Growth II)
- Effective Workplace Communication
- Innovation and Practice
- Singapore, the World and I

Discipline Modules

- Artificial Intelligence in Engineering
- Automation Systems
- Data Visualisation and Analysis for Engineering
- Digital Electronics
- Electrical and Electronic Fundamentals
- Emerging Technologies and Applications in Mobility Systems
- Engineering Design
- Engineering Materials
- Engineering Mathematics
- Fundamentals of Industrial Internet of Things
- Fundamentals of Unmanned Systems
- Principles of Mechanics
- Programming for Engineering
- Project Management
- Rail Operations Management and Maintenance
- Robotics Systems
- Sensor Systems
- Transportation Planning and Design

Elective Modules

Customise your learning pathways by selecting **ONE** of the following options:

Option A: Select Elective modules totalling 12 Modular Credits (MCs) from the list of modules in the Minor programmes that are applicable to the Diploma and/or from the modules listed below:

- Operations Planning
- Statistical Methods for Engineering

Option B: Select a Minor Programme

Option C: Select a CET-based Certificate programme and/or Elective module(s) from the list of modules in applicable Minor Programmes (only for eligible students)

Industry Orientation Programme Modules

Option 1: One-Semester Industry Immersion Programme

- Project

And select one module from the list below:

- Corporate Innovation Immersion Programme
- Entrepreneurial Immersion Programme
- Industry Immersion Programme

Option 2: Two-Semester Industry Immersion Programme

- Industry Immersion Programme or Industry Immersion Programme (Special Programme)
- Industry Immersion Programme II

CAREER OPPORTUNITIES

You will unlock a world of unlimited career opportunities in the dynamic fields of intelligent systems, smart automation systems and urban land transport solutions with roles such as:

- Assistant Engineer (Electrical/Facilities/Equipment/Maintenance/Mechanical/Process/Quality/Integration/Product/Rail Operations)
- Assistant Train Station Manager
- Automation and Robotics Assistant Engineer
- System Assistant Engineer
- Urban Transport Operators (Rail and Bus)/Technical Specialist

"RP has truly shaped who I am today. I've grown not just in skills, but in confidence and resilience. My lecturers were incredibly supportive, and somehow, RP always got me to do things I never believed I could. Along the way, I deepened my passion and knowledge in both robotics and land transport, a powerful blend of skills that has prepared me well to create #GreaterImpact for today's industry."

CHRISTINE
2025 Graduate

R21

DIPLOMA IN

Supply Chain Management

Join the dots in a connected global marketplace with a firm understanding of the supply chain.

Discover what it takes to be a supply chain management specialist and why it is the backbone of business success! In this course, you will explore the complexities of every aspect of a supply chain from procurement, supply and demand planning to distribution and logistics operations. Gain skills and knowledge on processes and practicalities behind the movement of goods, information and finances along the supply chain. Understand how suppliers, manufacturers, distributors, and retailers come together to drive international trade forward.

Scan to learn more

- Master supply chain models, operations and concepts, covering AI, sustainability, Internet of Things, data visualisation and many more. Earn industry-recognised certification like SAP to boost your career prospects
- Graduate ready for success with real-world learning in the Supply Chain Innovation Lab, coupled with robust curriculum, gaining skills and confidence for work, work-study, and/or further university studies
- Gain industry exposure through site visits, projects and internships with top supply chain companies, preparing you for diverse roles across multiple sectors

WHAT YOU WILL LEARN

General Modules

- Critical Thinking and Problem Solving Skills
- Designing Your Impact
- Designing Your Life (Future-Ready I)
- Designing Your Life (Future-Ready II)
- Designing Your Life (Personal Growth I)
- Designing Your Life (Personal Growth II)
- Effective Workplace Communication
- Innovation and Practice
- Singapore, the World and I

Discipline Modules

- Cold Chain and Pharmaceutical Supply Chain
- Data Visualisation and Analysis for Engineering
- Distribution and Transportation
- Engineering Cost Decisions
- Engineering Design
- Engineering Mathematics
- Fundamentals of Industrial Internet of Things
- Fundamentals of Unmanned Systems
- Inventory Management
- IT for Supply Chain Management
- Lean and Six Sigma
- Operations Planning
- Procurement and Supplier Development
- Programming for Engineering
- Project Management
- Statistical Methods for Engineering
- Supply Chain Management
- Warehousing and Storage

Elective Modules

Customise your learning pathways by selecting **ONE** of the following options:

Option A: Select Elective modules totalling 12 Modular Credits (MCs) from the list of modules in the Minor programmes that are applicable to the Diploma and/or from the modules listed below:

- Electrical and Electronic Fundamentals
- Principles of Mechanics

Option B: Select a Minor Programme

Option C: Select a CET-based Certificate programme and/or Elective module(s) from the list of modules in the Minor programmes that are applicable to the Diploma (only for eligible students)

Industry Orientation Programme Modules

Option 1: One-Semester Industry Immersion Programme

- Project

And select one module from the list below:

- Corporate Innovation Immersion Programme
- Entrepreneurial Immersion Programme
- Industry Immersion Programme

Option 2: Two-Semester Industry Immersion Programme

- Industry Immersion Programme or Industry Immersion Programme (Special Programme)
- Industry Immersion Programme II

CAREER OPPORTUNITIES

Look forward to building dynamic careers at all levels of the supply chain across a wide range of industries. You will be in a good position to pursue careers such as:

- Executive (Logistics & Operations)
- Fulfilment Executive
- Inventory and Warehouse Executive
- Logistics Solution Analyst
- Marketing and Customer Service Executive
- Operations Controller
- Procurement Executive
- Product Development Executive
- Regional Trade Executive
- Supply Chain Executive
- Supply Chain Management Trainee
- Trade Executive

“Supply chain isn't just about moving things, it's about connecting people, shaping economies, and improving lives. This journey has given me a #GreaterPurpose, to build smarter, more connected systems that make a real difference.”

ANGEL TEE XYN PYN
2025 Graduate

R61

DIPLOMA IN

Sustainable Built Environment

Transform the future with smart, sustainable building and architectural technologies.

Be at the cutting edge of digital and smart technologies for the Built Environment (BE)! Pick up skills that will allow you to design or manage buildings with features like Jewel Changi Airport's glass grid shell roof, HSBC Rain Vortex and Canopy Park. This diploma will ensure you are ready to take on various engineering positions in the exciting BE and Architecture, Engineering & Construction industry.

- Acquire expertise in digital and smart technologies for the Built Environment, mastering advanced tools to design, simulate, and manage buildings, preparing for future-ready careers
- Gain hands-on experience with green technologies and digital tools, empowering you to design energy-efficient buildings and drive Singapore's green and digital transformation
- Contribute to sustainability by designing and building a greener, healthier & low-carbon Built Environment, enhancing Singapore's environmental health and urban resilience

Scan to learn more

WHAT YOU WILL LEARN

General Modules

- Critical Thinking and Problem Solving Skills
- Designing Your Impact
- Designing Your Life (Future-Ready I)
- Designing Your Life (Future-Ready II)
- Designing Your Life (Personal Growth I)
- Designing Your Life (Personal Growth II)
- Effective Workplace Communication
- Innovation and Practice
- Singapore, the World and I

Discipline Modules

- Building Air-Conditioning and Mechanical Ventilation
- Building Electrical Systems
- Building Information Modelling
- Data Visualisation and Analysis for Engineering
- Design and Modelling for Building Services
- Electrical and Electronic Fundamentals
- Energy Management and Sustainability
- Engineering Design
- Engineering Mathematics
- Fundamentals of Industrial Internet of Things
- Fundamentals of Unmanned Systems
- Green Building Technology and Design
- Intelligent Systems for Building
- Principle of Mechanics
- Programming for Engineering
- Project Management
- Smart Facilities Management
- Technologies for Integrated Digital Delivery

Elective Modules

Customise your learning pathways by selecting **ONE** of the following options:

Option A: Select Elective modules totalling 12 Modular Credits (MCs) from the list of modules in the Minor programmes that are applicable to the Diploma and/or from the modules listed below:
- Operations Planning
- Statistical Methods for Engineering

Option B: Select a Minor Programme

Option C: Select a CET-based Certificate programme and/or Elective module(s) from the list of modules in the Minor programmes that are applicable to the Diploma (only for eligible students)

Industry Orientation Programme Modules

Option 1: One-Semester Industry Immersion Programme
- Project

And select one module from the list below:
- Corporate Innovation Immersion Programme
- Entrepreneurial Immersion Programme
- Industry Immersion Programme

Option 2: Two-Semester Industry Immersion Programme
- Industry Immersion Programme or Industry Immersion Programme (Special Programme)
- Industry Immersion Programme II

CAREER OPPORTUNITIES

You are well-placed to take on various engineering positions in Built Environment Industry such as:

- Assistant Engineer (Mechanical/Electrical)
- Assistant Engineer (Sustainable Design)
- BIM Modeller/Coordinator
- Facilities Executive Assistant
- Specialist in BIM and Digital Delivery

"Getting licensed through my Diploma in Sustainable Built Environment allowed me to fly the drone legally, competently and safely. With drone technology gaining traction in the built environment sector, being equipped with Class A Unmanned Aircraft Pilot License (UAPL) from RP has provided me with the relevant theoretical knowledge and practical skills to be even more industry-ready. RP opened up #GreaterPossibilities for me to thrive in a fast-evolving and tech-driven industry."

DANISH ISFAHAN BIN KAMIS
2024 Graduate