TRAINING INSTITUTION :

MALAYSIAN INSTITUTE OF TECHNOLOGY ACADEMY | PROFESSIONAL TRAINING

COLLABORATION PARTNER :

NAICO MALAYSIA

FUNDING AGENCY :

CREST COLLABORATIVE RESEARCH IN ENGINEERING, SCIENCE & TECHNOLOGY

UPSKILLING GRANT FOR
INDUSTRY CURRENT WORKFORCE

The **Upskilling Grant** for Industry Current Workforce aims to improve the skills of Malaysian industry workforce in the aerospace and medical devices industries. This grant provides an opportunity for employees to continue to strengthen their skills in order to be relevant to the current needs of the industry while increasing their competitiveness in the job market. Trainings conducted under this grants must be executed and completed within 2024.

Eligible Applicants

Aerospace and medical devices companies located in Malaysia and consisting of:

- AMMI & MAIA Association members

- Companies that focus on aerospace and medical devices technology

- Companies that support the ecosystem of the aerospace and medical devices industries

Eligible Training Participants

- Malaysian

- Full-time employees under the company's direct payroll and must be working in Malaysia

- Participants are allowed to attend One (1) trainings under this grant and subject to maximum training cost of RM10,000 per participant in 2024

Allowable Training Providers

Malaysian or overseas training providers which may include:

- Tertiary education institutions

- TVET skills centres

- Skills development centres

- Professional training providers

- Professional bodies

- Companies

- Organisations which are deemed relevant by CREST

Technology Partner/ Licensed / Authorized Training Centre by:

FANUC OMRON rexroth A Bosch Company SMC

For more information :

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+6012-383 1864

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NAICO MALAYSIA

FUNDING AGENCY :

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Certification Bodies :

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SMC

Thinking future together **HIRAYAMA**

The Council for Six Sigma Certification

rexroth A Bosch Company

AUTODESK AUTOCAD

FANUC

OMRON

JPK

"WE ENGINEER YOUR FUTURE

1. Manufacturing Technology & Automation
i) CNC Wire Cut Operation
ii) CNC Grinding Operation
iii) CNC Programming and Operations
iv) Robot Programming and Simulation for IR4.0
v) PLC Fundamental for Automation and IoT 4.0
vii) Smart Intelligent Manufacturing 4.0
viii) Electro-pneumatics and programming PLC
ix) Injection Moulding
x) Industry 4.0 Transformation : Technical Skills and IoT Integration in Practice
xi) Lean Six Sigma and Quality managament in
x) Medical Device Manufacturing
xi) 3D Printing
xii) Advanced CNC Machining
xiii) Robotics
xiv) COBOT

2. Engineering and Design
i) CAD Design and Engineering with 3D prototyping
ii) Tooling Design Fundamentals for
iii) Manufacturing Professionals
iv) Supply Chain Management Explained

3. Sustainability and ESG
i) Environmental, social, and corporate governance (ESG) compliance

4. Electronic Device History Records (eDHR)
i) Electronic Device History Records (eDHR)

5. Distribution and warehousing
i) Good Distribution Practice for Medical Devices (GDPMD)

6. Post-market surveillance
i) Post-Market Surveillance, Vigilance and Adverse Event Investigation

7. Packaging & Sterilization
i) Medical Packaging
ii) Sterilization (Ethylene Oxide, Gamma Radiation)
iii) Sterilization Residuals

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" ROBOT PROGRAMMING AND SIMULATION

TECHNOLOGY AREAS
Manufacturing technology and automation

TRAINING FOCUSED AREAS
Robotics

OVERVIEW
This course dives into the world of FANUC robots, specifically the LR Mate 200id model. You'll learn the fundamentals of operating these robots using the Roboguide software, the primary tool for programming and interacting with them. The course is designed for operators, technicians, engineers, and programmers who need to set up, record, and troubleshoot programs created with the FANUC Robotics HandlingTool Software Package. By the end, you'll be equipped to confidently operate the LR Mate 200id, navigate Roboguide, and program robot movements and actions using Handling Tool.

CONTENT

BASIC OPERATION, PROGRAMMING, AND SAFETY

- Overview of the training program.
- Introduction to robot operations and Industry
- Safety precautions when working with robots.
- Getting familiar with the teaching pendant and operation box.
- Manual operation: practicing jogging and selecting frames.
- Basic program elements and structure.

ROBOT SIMULATION

- Introduction to simulation: purposes and benefits.
- Creating a new workcell simulation environment.
- Editing robot properties and adding parts to the workcell.
- Implementing end-of-arm tooling and fixtures into the simulation.
- Hands-on exercise: create and run a robot program in the simulation.
- Creating an AVI (audiovisual interleave) file of your workcell.
- Basic program elements and structure.

PROGRAMMING AND POSITIONING

- Creating a program: step-by-step guide.
- Teaching the robot positions.
- Practicing touch-up positions.
- Editing and fine-tuning the robot program.
- Group activity: develop a simple robot movement sequence.

TRAINING EQUIPMENT MATERIAL (TEM)

Placement
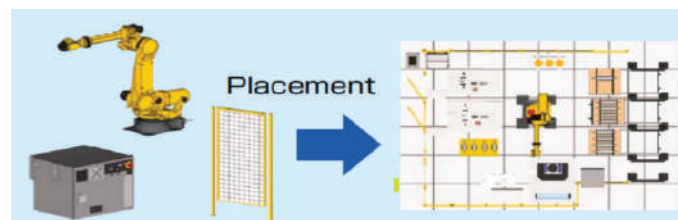
📅 8 Days

🕐 64 Hours

🏅 MIT Academy Professional Certification & FANUC Technology Partner

Technology Partner: **FANUC**

" ISO 13485:2016 MEDICAL DEVICE QUALITY MANAGEMENT SYSTEM (QMS)

TECHNOLOGY AREAS
Quality Management System

TRAINING FOCUSED AREAS
ISO 13485

OVERVIEW
This comprehensive 8-day course is designed to equip participants with the knowledge and skills needed to effectively audit and assess conformity with the ISO 13485:2016 standard for Medical Device Quality Management Systems (QMS). The course will cover the requirements of the standard, the development process, auditing principles, and practical audit preparation and execution techniques. Participants will learn how to apply the Plan-Do-Check-Act (PDCA) methodology, establish audit teams, manage the audit process, and prepare audit reports.

CONTENT

INTRODUCTION TO ISO 13485:2016
- Overview of ISO 13485:2016 standard
- Development process of ISO 13485:2016
- Key terms and definitions in medical device QMS

UNDERSTANDING THE INTENT AND REQUIREMENTS OF ISO 13485:2016
- Intent and purpose of ISO 13485:2016
- Detailed requirements of ISO 13485:2016
- Relationship between ISO 13485:2016 and regulatory requirements

EVIDENCE FOR CONFORMITY TO ISO 13485:2016
- Types of evidence needed to demonstrate conformity
- Documented information requirements
  Records and their importance in auditing

PROCESS APPROACH AND PDCA METHODOLOGY
- Understanding the process approach in auditing
- Applying PDCA methodology in auditing
- Identifying and evaluating processes in a medical device QMS

PRINCIPLES, PROCESSES, AND METHODS OF AUDITING
- Auditing principles and their application
- Audit planning and preparation
- Conducting an effective audit movement sequence.

TRAINING EQUIPMENT MATERIAL (TEM)

Errors Vs defects
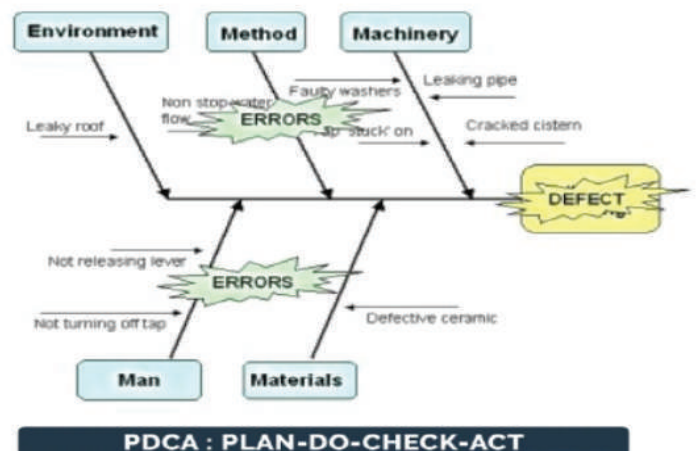
- 📅 8 Days
- 🕐 64 Hours

🏅 MIT Academy Certification & Continuous Professional Development (CPD) (MBOT)

Professional recognition:
MBOT
LEMBAGA TEKNOLOGIS MALAYSIA
MALAYSIA BOARD OF TECHNOLOGISTS

TRAINING INSTITUTION :

COLLABORATION PARTNER :

FUNDING AGENCY :

MALAYSIAN INSTITUTE OF TECHNOLOGY ACADEMY® | PROFESSIONAL TRAINING

NAICO MALAYSIA

CREST
COLLABORATIVE RESEARCH IN ENGINEERING, SCIENCE & TECHNOLOGY

ISO 13485:2016 MEDICAL DEVICE QUALITY MANAGEMENT SYSTEM (QMS)

CONTENT

AUDIT PREPARATION AND EXECUTION
- Preparing for an audit
- Conducting opening meetings
- Collecting and verifying audit evidence

MANAGING THE AUDIT PROCESS
- Managing audit time and resources
- Handling conflicts and difficult situations
- Closing meetings and preparing for reporting

AUDIT REPORTING AND FOLLOW-UP
- Writing audit reports
- Conducting audit follow-up activities
- Closing the audit loop and ensuring corrective actions are implemented

📅 8 Days

🕐 64 Hours

🎖 MIT Academy Certification & Continuous Professional Development (CPD) (MBOT)

TRAINING EQUIPMENT MATERIAL (TEM)

PDCA : PLAN-DO-CHECK-ACT
When to use the method?

Recurring problems · Major changes · Launching new products/services · Process optimization · Project management · Improving customer satisfaction · Quality management

PROACTION + UTrakk

Professional recognition:

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ISO 14971: RISK MANAGEMENT FOR MEDICAL DEVICES

CONTENT

INTRODUCTION TO ISO 14971
- Overview of ISO 14971 standard
- Importance of risk management in medical devices
- Relationship between ISO 14971 and other standards

HAZARD IDENTIFICATION AND ANALYSIS
- Identifying hazards in products, processes, and services
- Analyzing hazards using various techniques
- Documentation of hazards in risk management process

PROCESS MAPPING
- Understanding process mapping in risk management
- Creating process maps for medical device processes
- Linking process maps to hazard identification

FAULT TREE ANALYSES
- Introduction to fault tree analyses (FTA)
- Performing FTA for medical device risks
- Interpreting results and identifying critical points

FAILURE MODE AND EFFECTS ANALYSES (FMEA)
- Basics of FMEA
- Performing FMEA for medical devices
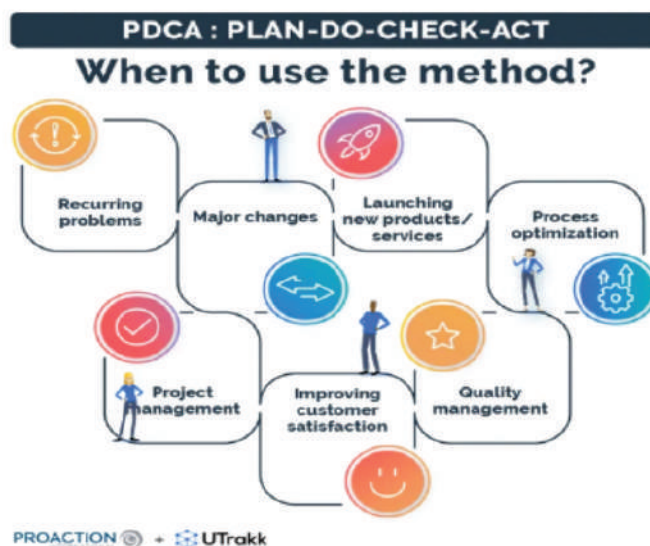- Incorporating FMEA results into risk management plan

📅 8 Days

🕐 64 Hours

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TRAINING EQUIPMENT MATERIAL (TEM)

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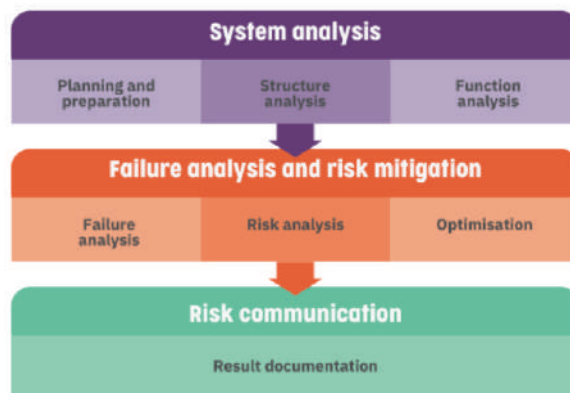
ISO 14971: RISK MANAGEMENT FOR MEDICAL DEVICES

CONTENT

HAZARD ANALYSIS AND CRITICAL CONTROL POINTS (HACCP)

- Introduction to HACCP
- Applying HACCP principles to medical devices
- Integrating HACCP into overall risk management process

SOFTWARE HAZARDS AND RISK MANAGEMENT

- Understanding software hazards in medical devices
- Applying risk management to software development
- Ensuring software compliance with ISO 14971

HUMAN FACTORS AND RISK MANAGEMENT IMPLEMENTATION

- Basics of human factors in medical devices
- Relationship between human factors and risk management
- Implementing risk management in your company

📅 8 Days

🕐 64 Hours

🎖 MIT Academy Certification & Continuous Professional Development (CPD) (MBOT)

TRAINING EQUIPMENT MATERIAL (TEM)

Probability scores:

Score	Meaning
1	Extremely unlikely (almost impossible)
2	Remote (relatively few)
3	Occasional
4	Reasonably possible (repeated failures)
5	Frequent (failure is inevitable)

Severity scores:

Score	Meaning
1	No relevant effect on reliability or safety.
2	Very minor, no damage, no injuries, and minor impact. Only noticed by expert users.
3	Minor failure, low damage, and light impact. Noticed by the average user.
4	Critical failure, loss of major functions, severe injury, severe damage, only one step away from catastrophic failure or death.
5	Catastrophic. Complete operation failure or loss of life.

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" CNC MILLING MACHINE

TECHNOLOGY AREAS
Manufacturing technology and automation

TRAINING FOCUSED AREAS
ISO 14971

OVERVIEW
This introductory CNC training course is designed to give delegates the skills and knowledge they need to part-programme, set and operate CNC Milling Centres. The practical elements will enable the delegates to programme and set a CNC Machine safely and effectively.

CONTENT

G CODE PROGRAMING WORDS AND SYNTAX
- Building Blocks: Blocks, EOB ,G01, Decimal, Comment, Sections
  Tool Change (M6)
- Park the Machine, Machine Coordinates (G53)

CHECK TOOL LENGTH, WORK OFFSET (G54), TOOL OFFSET (G43)
- Essential G and M Codes
- Modal or Non-Modal
- Variables

OFFSETS
- Work Offsets
- Tool Length Offsets
- Offset Safety

CNC TOOLING
- Drill vs. Mill
- Tool Load
- Peripheral Milling
- Slotting
- Step Over/Step Down Engagement
- Flute Types
- Tool Profile
- Tool Holder Types
- ER Collet System
- Feeds and Speeds
- Work Holding Devices

CREATE CAM FILE
- Modelling
- Reserved Work Offsets for
- Toolpath Basics
- Stock Setup
- Toolpath Types
- Entry and Exit in Materials Stock
- Simulation
- Checking G-Codes
- File Name and Post Processor
- Work Offset
- Stock Length Z
- Max Tool Depth and Break Through

CONTROL PANEL
- Soft Keys
- Reset
- ONG – Text Editing Keys
- Display Modes
- Navigation

MACHINE PANEL
- Emergency stop, operation modes and overrides
- Conditional, Motion Control & Spindle control Switches

Professional recognition: MBOT LEMBAGA TEKNOLOGIS MALAYSIA MALAYSIA BOARD OF TECHNOLOGISTS

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FUNDING AGENCY :

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" CNC MILLING MACHINE

CONTENT

MACHINE OPERATION
- Load and Run a File
- Embedded Ethernet Mode
- Load a Program from the Network Drive
- Operator Position
- Starting Program
- Verify Work Offset in X and Y
- Spindle warm up procedure
- Store Work Offset (M402)
- Jog Mode
- Common Mistakes in Machine operations

ADVANCED MACHINE OPERATION
- Stop and Jog Away, Return and Continue Cutting
- Relative Measurement
- Store a Tool Length Offset
- View or Modify the Values Stored in a Work Offset
- Store a Work Offset X and Y (Edge Finder)
- Store a Work Offset Z (With Tool)
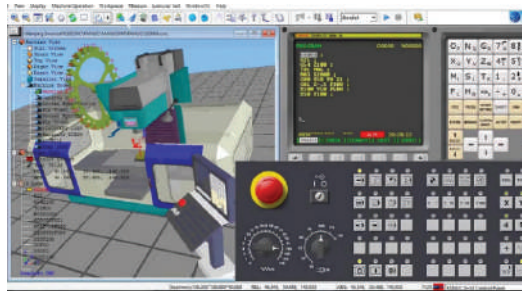
ALARMS AND RECOVERY
- Soft Over-Travel Alarm
- Hard Over-Travel Alarm
- Paused In The Middle Of a Tool Change
- Advanced Machine Operation

📅 8 Days

🕐 64 Hours

🏅 MIT Academy Certification & Continuous Professional Development (CPD) (MBOT)

TRAINING EQUIPMENT MATERIAL (TEM)

Professional recognition:

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CReST COLLABORATIVE RESEARCH IN ENGINEERING, SCIENCE & TECHNOLOGY

"ENVIRONMENTAL SOCIAL & GOVERNANCE IN AEROSPACE

TECHNOLOGY AREAS
Sustainability and ESG

TRAINING FOCUSED AREAS
Environmental, social, and corporate governance (ESG) compliance

OVERVIEW
The ESG training program covers crucial sustainability topics such as Climate Change, Total Energy Consumption, and emissions across Scopes 1, 2, and 3. It emphasizes sustainable Supply Chain Management, including spending on local suppliers and screening new vendors based on environmental and social criteria. Waste Management strategies are explored to reduce Total Waste Generated and promote recycling. The program also addresses Material usage, highlighting the importance of incorporating Recycled Materials into production processes for a more sustainable approach. Overall, it equips participants with tools to integrate ESG principles into business practices effectively.

CONTENT
MODULE 1: UNDERSTANDING ESG FUNDAMENTALS
- Introduction to ESG: Definition and Importance
- Overview of ESG (Environmental, Social, Governance) and its significance in investment decision-making and corporate sustainability.
- Explanation of the three pillars of ESG and how they contribute to long-term value creation.
- Understanding the ethical, social, and economic imperatives driving ESG integration.
- Evolution of ESG Investing
- Historical context of ESG investing, tracing its origins and development over time.
- Exploration of the factors driving the evolution of ESG investing, including societal shifts, regulatory changes, and investor demand.
- Examination of key milestones and trends that have shaped the ESG investment landscape.
- Global ESG Trends and Market Dynamics

- Analysis of current global trends in ESG integration and sustainable investing. Overview of the growing importance of ESG
- considerations in financial markets and investment strategies.
- Discussion of regional variations in ESG adoption and market dynamics. Regulatory Landscape and Standards
- Overview of regulatory frameworks governing ESG disclosure and reporting.
- Examination of key regulatory bodies and initiatives driving ESG standards and compliance.
- Discussion of emerging trends in ESG regulation and its implications for investors and corporations.

TRAINING EQUIPMENT MATERIAL (TEM)

📅 8 Days

🕐 64 Hours

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COLLABORATIVE RESEARCH IN ENGINEERING, SCIENCE & TECHNOLOGY

" ENVIRONMENTAL SOCIAL & GOVERNANCE IN AEROSPACE

CONTENT
MODULE 2: ENVIRONMENTAL CONSIDERATIONS

- Environmental Factors in ESG: Climate Change, Pollution, Resource Management
- Examination of the environmental challenges posed by climate change, including rising temperatures, extreme weather events, and sea-level rise.
- Discussion on the impact of pollution on ecosystems, human health, and biodiversity.
- Exploration of strategies for sustainable resource management to mitigate environmental degradation and promote conservation.
- ESG Risks and Opportunities in Environmental Sustainability Identification and analysis of ESG risks and opportunities associated with environmental sustainability.
- Discussion on the financial implications of environmental risks and the potential for value creation through sustainable practices.
- Case studies highlight organizations that have successfully managed environmental risks and capitalized on sustainability opportunities.
- Sustainable Supply Chain Management
- Overview of sustainable supply chain practices and their importance in reducing environmental impact and enhancing resilience.
- Examination of strategies for integrating environmental considerations into supply chain decision-making, including green procurement and supplier engagement.
- Discussion on the role of collaboration and transparency in building resilient and sustainable supply chains.
- Environmental Impact Assessment Tools and Metrics Introduction to environmental impact assessment tools and methodologies, such as life cycle assessment (LCA) and carbon footprint.
- Overview of key environmental performance indicators and metrics used to measure and track sustainability goals.

📅 8 Days

🕐 64 Hours

🏅 MIT Academy Certification & Continuous Professional Development (CPD) (MBOT)

TRAINING EQUIPMENT MATERIAL (TEM)

ENVIRONMENTAL
- Energy and climate management
- Water management
- Waste reduction
- Sustainable food supply
- Recycling and circular economy

SOCIAL
- Sustainable HR sourcing
- Diversity and inclusion
- Employee health
- Patient safety and welfare
- Digital health
- Public positioning

GOVERNANCE
- Sustainable business strategy
- Sustainable financing model
- Board diversity
- Risk management
- Sustainable business principles

Professional recognition:

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ENVIRONMENTAL SOCIAL & GOVERNANCE IN AEROSPACE

CONTENT

MODULE 3: SOCIAL FACTORS IN ESG

- Social Dimensions of ESG: Diversity, Human Rights, Labor Practices Overview of the social pillars of ESG, focusing on diversity and inclusion, human rights, and fair labor practices.
- Discussion on the business case for promoting social equity and the benefits of fostering a diverse and inclusive workplace.
- Examination of the role of corporate policies and practices in addressing social issues and promoting social responsibility.
- Stakeholder Engagement and Community Relations Importance of stakeholder engagement in ESG practices and decision-making processes.
- Strategies for building constructive relationships with stakeholders, including employees, customers, communities, and civil society organizations.
- Case studies highlighting best practices in stakeholder engagement and community relations across different industries.
- Addressing Social Risks in Investments and Operations Identification and assessment of social risks associated with investments and business operations.
- Discussion on the financial and reputational consequences of failing to address social risks. Introduction to risk management strategies and tools for mitigating social risks in investment portfolios and organizational activities.
- Social Impact Measurement and Reporting Overview of methodologies for measuring social impact, including qualitative and quantitative approaches.
- Introduction to key performance indicators (KPIs) and metrics used to assess social performance and outcomes.
- Guidance on social impact reporting frameworks and best practices for communicating social impact to stakeholders.

📅 8 Days

🕐 64 Hours

🏅 MIT Academy Certification & Continuous Professional Development (CPD) (MBOT)

TRAINING EQUIPMENT MATERIAL (TEM)

Examples of ESG Factors Relevant to the Health Sector

Environmental
Climate Change Risks/Opportunities
Energy Management
Carbon Emissions
Sustainable Packaging
Recycling
Renewable Energy
Sustainable Sourcing
Water Management

Social
Community Relations
Human Rights
Access & Affordability
Supply Chain Resilience
Produce Safety & Quality
Customer Welfare
Marketing & Product Labeling
Diversity, Equity & Inclusion

Governance
Business Ethics
Cybersecurity
Data Protection & Privacy
Legal & Regulatory
Board Diversity
Pay Equity
Risk Management

Professional recognition:

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ENVIRONMENTAL SOCIAL & GOVERNANCE IN AEROSPACE

CONTENT

MODULE 4: GOVERNANCE PRINCIPLES

- Corporate Governance and ESG Integration
- Overview of corporate governance principles and their alignment with ESG objectives.
- Discussion on the importance of strong governance frameworks in mitigating risks and fostering long-term sustainability.
- Exploration of governance structures and mechanisms that support ESG integration in organizations.
- Board Diversity and Composition
- Importance of board diversity in enhancing decision-making, innovation, and stakeholder representation.
- Examination of strategies for promoting diversity and inclusion on corporate boards.
- Case studies highlight the benefits of diverse boards and the challenges associated with achieving board diversity.
- Transparency and Accountability
- Significance of transparency and accountability in building trust with stakeholders and fostering corporate reputation.
- Discussion on transparency standards and reporting requirements related to ESG disclosure.
- Exploration of accountability mechanisms and the role of corporate reporting in promoting accountability.
- Anti-corruption Measures and Ethical Business Practices
- Overview of anti-corruption laws, regulations, and international conventions.
- Examination of ethical business practices and their importance in preventing corruption and unethical behavior.
- Strategies for implementing anti-corruption measures and fostering a culture of integrity and ethical conduct within organizations.

📅 8 Days

🕐 64 Hours

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MALAYSIAN INSTITUTE OF TECHNOLOGY ACADEMY® | **PROFESSIONAL TRAINING**

COLLABORATION PARTNER :

NAICO M A L A Y S I A

FUNDING AGENCY :

CREST COLLABORATIVE RESEARCH IN ENGINEERING, SCIENCE & TECHNOLOGY

ENVIRONMENTAL SOCIAL & GOVERNANCE IN AEROSPACE

CONTENT

MODULE 5: INTEGRATING ESG INTO INVESTMENT DECISIONS

- ESG Integration Strategies for Investors
- Overview of different approaches to integrating ESG factors into investment analysis and decision-making.
- Discussion on the benefits and challenges of incorporating ESG considerations into investment strategies.
- Exploration of ESG integration frameworks and methodologies used by institutional investors and asset managers.
- Screening and Selection Criteria
- Identification of key screening and selection criteria used to evaluate the sustainability performance of companies and assets.
- Discussion on the importance of data quality, materiality, and relevance in ESG screening processes.
- Examination of sector-specific ESG considerations and industry benchmarks for screening investments.
- Impact Investing and Sustainable Investment Vehicles
- Introduction to impact investing principles and strategies for generating positive social and environmental outcomes alongside financial returns.
- Overview of sustainable investment vehicles, including green bonds, ESG-themed funds, and socially responsible investment (SRI) products.
- Discussion on the role of impact measurement and reporting in evaluating the effectiveness of impact investing strategies.
- Case Studies of Successful ESG Integration
- Analysis of real-world case studies showcasing successful ESG integration initiatives across different asset classes and investment strategies.
- Examination of key success factors, challenges, and lessons learned from the implementation of ESG integration strategies.
- Interactive discussions on best practices and strategies for overcoming common barriers to ESG integration in investment decision-making.

📅 8 Days

🕐 64 Hours

🏅 MIT Academy Certification & Continuous Professional Development (CPD) (MBOT)

TRAINING EQUIPMENT MATERIAL (TEM)

Professional recognition: **MBOT** LEMBAGA TEKNOLOGIS MALAYSIA MALAYSIA BOARD OF TECHNOLOGISTS

For more information :

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+6012-387 8711
+6012-383 1864

📍 **MIT Academy Sdn Bhd** (647236-A)
26, Jalan Anggerik Vanilla Y 31/Y, Kota Kemuning, 40460 Shah Alam, Selangor

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CONTENT

MODULE 6: ESG REPORTING AND DISCLOSURE

- Reporting Frameworks and Standards (e.g., GRI, SASB, TCFD)
- Overview of commonly used ESG reporting frameworks and standards, including their objectives, scope, and key principles.
- Comparison of frameworks such as GRI, SASB, and TCFD, highlighting their focus areas and reporting requirements.
- Discussion on the evolution of ESG reporting standards and emerging trends in corporate disclosure practices.
- ESG Disclosure Best Practices
- Identification of best practices for ESG disclosure, including transparency, accuracy, and relevance.
- Examination of effective communication strategies for conveying ESG performance to different stakeholder groups.
- Case studies highlighting organizations that have implemented exemplary
- ESG disclosure practices and the impact on stakeholder perceptions.
- Materiality Assessments and Stakeholder Engagement
- Introduction to materiality assessments and their role in identifying and prioritizing ESG issues for reporting.
- Discussion on stakeholder engagement processes and the importance of incorporating stakeholder perspectives into materiality assessments.
- Practical exercises on conducting materiality assessments and engaging with stakeholders to inform reporting priorities.
- Regulatory Requirements and Compliance
- Overview of regulatory requirements related to ESG reporting at the national and international levels.
- Examination of regulatory frameworks and mandates, including mandatory reporting regimes and voluntary disclosure initiatives.
- Guidance on ensuring compliance with regulatory requirements and navigating the evolving landscape of ESG reporting standards.

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MODULE 7: MANAGING ESG RISKS

- ESG Risk Management Frameworks
- Overview of ESG risk management frameworks, such as ISO 31000, COSO ERM, and TCFD recommendations.
- Discussion on the principles and components of effective ESG risk management frameworks.
- Exploration of how ESG risks intersect with traditional risk management practices.
- Scenario Analysis and Stress Testing for ESG Risks
- Introduction to scenario analysis and stress testing techniques for assessing the impact of ESG risks on organizational resilience.
- Practical exercises on developing and implementing scenario analysis scenarios for different ESG risk scenarios.
- Discussion on the benefits and limitations of scenario analysis and stress testing in ESG risk management.
- Due Diligence Processes for ESG Risks
- Overview of due diligence processes for identifying and assessing ESG risks in investment decisions and business operations.
- Examination of due diligence methodologies, including environmental and social impact assessments (ESIAs) and human rights impact assessments (HRIAs).
- Case studies illustrating the importance of due diligence in managing ESG risks and preventing negative impacts on stakeholders.
- Role of Technology in ESG Risk Assessment
- Exploration of the role of technology, including artificial intelligence (AI), big data analytics, and blockchain, in enhancing ESG risk assessment and management.
- Discussion on how technological innovations can improve data collection, analysis, and reporting for ESG risks.
- Case examples of technology-enabled ESG risk assessment tools and platforms.

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CONTENT

MODULE 8: IMPLEMENTING ESG STRATEGIES

- Developing an ESG Strategy for Organizations
- Overview of the key components of an ESG strategy, including goals, objectives, targets, and action plans.
- Discussion on the importance of aligning ESG strategies with organizational values, mission, and business objectives.
- Practical exercises on developing an ESG strategy tailored to the specific needs and context of an organization.
- Engaging Stakeholders and Building Partnerships
- Importance of stakeholder engagement in the development and implementation of ESG strategies.
- Strategies for identifying and engaging key stakeholders, including investors, employees, customers, suppliers, and communities.
- Case studies illustrating successful examples of stakeholder engagement and partnership-building for ESG initiatives.
- Employee Training and Culture Integration
- Importance of employee training and education in promoting awareness and understanding of ESG principles.
- Strategies for integrating ESG into organizational culture and fostering a sense of ownership and accountability among employees.
- Practical tips for designing and delivering effective ESG training programs for employees at all levels of the organization.
- Continuous Improvement and Monitoring
- Overview of processes for monitoring and evaluating ESG performance against established goals and targets.
- Importance of data collection, measurement, and reporting in tracking progress and identifying areas for improvement.
- Discussion on the role of feedback mechanisms and performance reviews in driving continuous improvement in ESG practices.

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" PROCESS VALIDATION

TECHNOLOGY AREAS
Quality Management System

TRAINING FOCUSED AREAS
Process Validation

OVERVIEW
This course dives into the world of FANUC robots, specifically the LR Mate 200id model. You'll learn the fundamentals of operating these robots using the Roboguide software, the primary tool for programming and interacting with them. The course is designed for operators, technicians, engineers, and programmers who need to set up, record, and troubleshoot programs created with the FANUC Robotics HandlingTool Software Package. By the end, you'll be equipped to confidently operate the LR Mate 200id, navigate Roboguide, and program robot movements and actions using Handling Tool.

CONTENT

INTRODUCTION TO PROCESS VALIDATION
- Basic Principles of Process Validation
- Regulatory and International standard Requirements for Validation (ISO 13485, AS 9100)

OVERVIEW OF PROCESS VALIDATION
- Why and What do we validate
- Design Qualification
- Installation Qualification
- Operational Qualification
- Performance Qualification
- Process Validation Decision
- Validation Master Plan
- Protocols and reports

PLANNING THE PROCESS VALIDATION
- Establish validation team
- Develop Master Validation Plan
- Review Planning
- Develop validation protocol

CONDUCTING AND EXECUTING THE PROCESS VALIDATION
- Determination of WHAT to verify / measure
- Determination of HOW to verify / measure
- Determination of HOW MANY to verify / measure
- Define acceptance / rejection criteria
- Consideration during IQ / OQ / PQ

TRAINING EQUIPMENT MATERIAL (TEM)
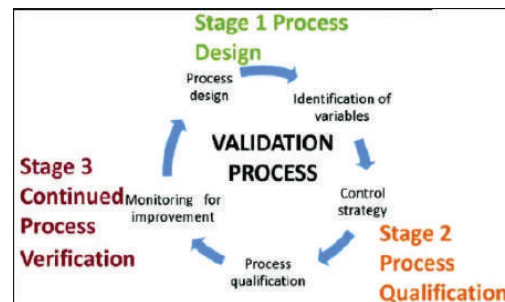
- 8 Days
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" PROCESS VALIDATION

CONTENT

INSTALLATION QUALIFICATION
Risk Assessment - FMEA
- Mistake Proof
- Challenge Testing

OPERATIONAL QUALIFICATION
- Develop Measureable Outputs
- Validate Measureable System
- Determine Key Inputs
- Establish Control Plan for Key Input
- Determine worst-case conditions
  Perform worst-case testing

PERFORMANCE QUALIFICATION
- Performance Test on 3 Lots
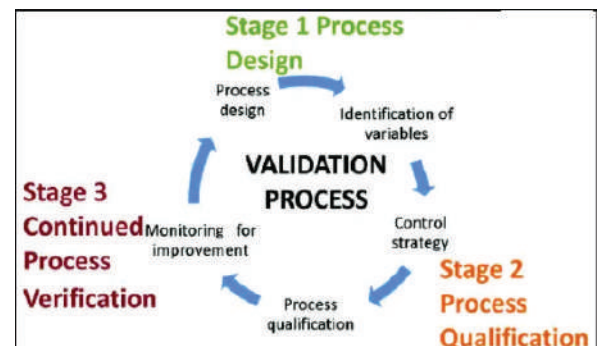
MAINTAINING VALIDATION
- Monitor and control of Process Validation
- Changes of processes and / or product
- Periodic Revalidation
- Use of historical Data in process validation

📅 8 Days

🕐 64 Hours

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