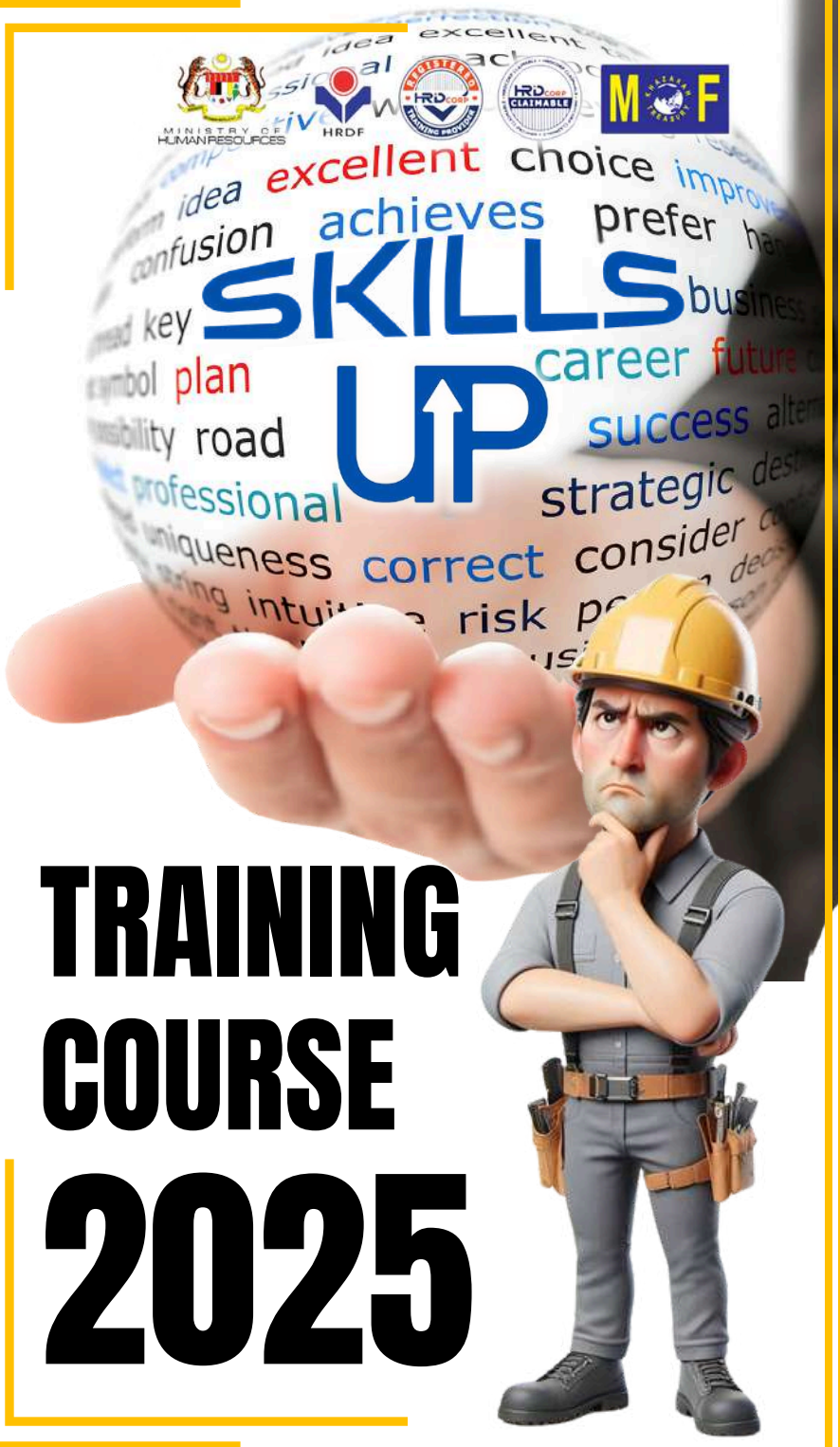
PS AIR COMPRESSOR ENGINEERING AND TRAINING ACADEMY

MANAGED BY : PS AIR COMPRESSOR (M) SDN BHD (912267-A)



TRAINING COURSE 2025

PS Air Compressor Engineering and Training Academy

Managed by:
PS Air Compressor (M) Sdn. Bhd.

HRD Corp Accredited Training Provider

Registered No: TP1000148562

MINISTRY OF HUMAN RESOURCES

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List of Content

1) The Company

Message From Founder

Dear Valued Stakeholders,

It is my honour to speak on behalf of PS Air Compressor (M) SdnBhd, a company committed to innovation, reliability, and excellence in the manufacturing of air compressors. Our dedication to quality is evident in every facet of our operations, from advanced engineering to dependable customer support and sustainable practices.

We also take pride in sharing our expertise through training initiatives. We recognize the vital role that compressed air systems play in ensuring your operations run smoothly, and we are proud to be your partner in achieving efficiency and reliability.

As we continue to evolve and respond to the dynamic demands of the industry, we remain dedicated to providing cutting-edge, one-stop solutions that empower businesses across various sectors. Your trust and support inspire us to uphold the highest standards in quality, energy efficiency, and sustainability.

We are moving forward by exploring new technologies, expanding our global presence, and nurturing meaningful collaborations that drive growth for our customers and communities. At PS Air Compressor, we understand that our success is intricately linked to the success of our customers, employees, and partners.

Looking ahead, we are excited to announce new initiatives aimed at enhancing operational efficiency while minimizing environmental impact. Together, we aspire to create a sustainable future powered by green energy, innovation, and collaboration.

On behalf of our team, I want to express our heartfelt gratitude for your unwavering support and trust in us. We remain dedicated to serving you with excellence and building stronger partnerships in the coming year.

Thank you all for your continued trust and support. Together, we will shape a future of green technology innovation and success.

Thank you for being an essential part of our journey.

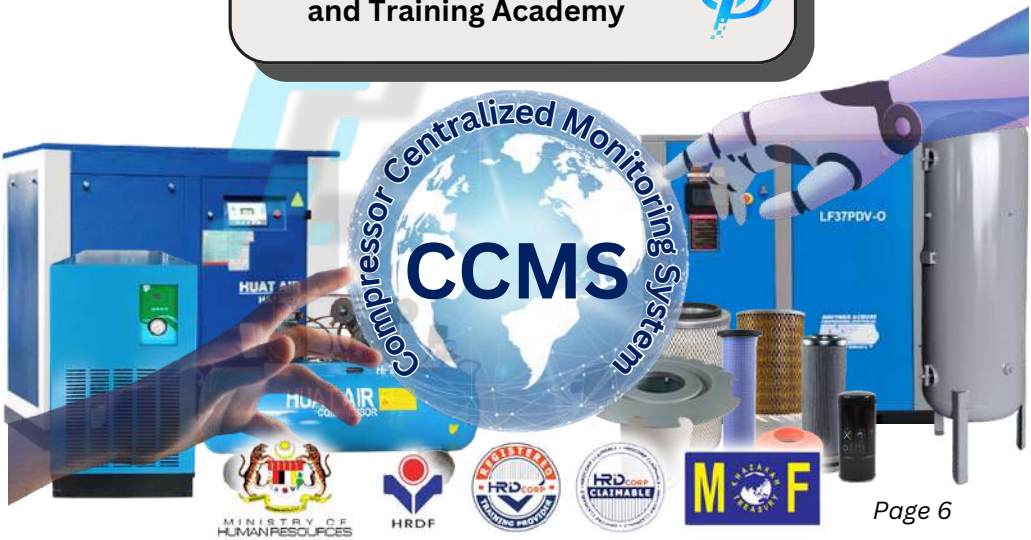
Warmest Regards,

Ng Soon Huat
Managing Director

Company Subsidiary

PS Air Compressor (M) Sdn Bhd

- **ACParts Engineering Sdn Bhd** (AC Parts – Compress Air System)
- **LMF Engineering (M) Sdn Bhd**
  - **QP 88 Enterprise** (QP88.MY)
- **PS Air Compressor Engineering and Training Academy**



Company Profile

PS Air Compressor (M) Sdn Bhd was established in 2010 by Mr. Ng Soon Huat, who has a rich background and expertise in air compressor technology. Headquartered in Johor Bahru, the company has evolved into one of Malaysia's leading **One-Stop Solutions** for air compression systems, offering services in manufacturing, sales, service, and training.

The company is dedicated to ensuring complete customer satisfaction by delivering exceptional quality, performance, and pricing, along with reliable after-sales service and ongoing training and development. PS Air Compressor's primary goal is to maximize value for all its customers, particularly in terms of after-sales support.

PS Air Compressor offers user-friendly and space-saving units that are straightforward to operate and maintain. Our compressors feature an effective capacity control system that guarantees optimal energy efficiency. We are committed to enhancing product quality and performance while fostering a sustainable ecosystem in every aspect of our design process.

PS Air Compressor deliver more than just mere Vision, as set a GOAL. A Goal to attain the highest standards of services and provide the best **Quality of One-Stop Solution for Compressor Systems.**

In order to achieve the company GOAL, the company embark on extensive Research & Development (R&D) procedures including the Compressor Centralized Monitoring Unit as known as CCMS in the field of Compressor Maintenance & Services.

PS Air Compressor promised to deliver on the 6 Core Principles:

- Accurate Performance
- Creative Solution
- Professional & Proficient Service
- Accurate Execution
- Real Value for Customer
- Total Satisfaction Guaranteed

And with slogan "Looking Forward to Serving You" all time.

Company Profile

ONE-STOP PRODUCTS Solution in supply and services of the following products

Air Compressor


Air Dryer


Air Receiver Tank


Main Line Filter

Oil Water Separator

CCMS


Power Saving


Spare Parts

Why? CHOOSE US

Tailored Solutions — Customized training programs to meet the specific needs of your organization.

Expert Trainers — Our instructors bring a wealth of industry knowledge and practical experience to ensure a high-quality learning experience.

Measurable Impacts — Assessment tools and evaluations to track progress and demonstrate the tangible benefits of training.

Ongoing Support — Post-training resources and follow-up sessions to reinforce learning and provide continuous support.

2) PS Green Energy Air Compressor Technology Core Training Courses

PS Green Energy Air Compressor Technology Core Training Courses:

A) Next Step in Industrial Compressed Air System Technology – Innovations & Future Trends	2 Hours
B) Industrial Air Compressor Safe Handling and Operation	2 Days
C) Industrial Green Energy Air Compressor Engineering and Monitoring Technology	2 Days
D) Industrial Air Compressor Critical Competency Maintenance Skills	5 Days
E) Industrial Air Compressor – Competency Air Leak Audit Inspection and Reporting	3 Days
F) Industrial Air Compressor - Competency Performance Audit Inspection and Reporting	4 Days
G) Green Energy Industrial Air Compressor - Engineering Design and Implementation	2 Days
H) Industrial Air Compressor - Competency IR 4 Compressor Centralized Monitoring System (CCMS) Technology	3 Days

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A) Next Step in Industrial Compressed Air System Technology – Innovations & Future Trends - 1/3

This is the complementary Online Webinar 2 hrs Training from PS Air Compressor Engineering and Training Academy.
(Theory Webinar – 2 hrs)

1) Webinar Purposed:

The webinar aims to educate industry professionals on the latest advancements in industrial compressed air system technology, focusing on energy efficiency, smart automation, and sustainability. Participants will learn about modern innovations, future trends, and practical strategies to optimize their compressed air systems, reduce operational costs, and enhance reliability.

Through expert insights, real-world case studies, and interactive discussions, attendees will gain the knowledge needed to implement cutting-edge solutions for improved performance and long-term success. his course provides essential knowledge and practical guidelines for safely handling and operating industrial air compressors.

2) Course Objective:

By the conclusion of the webinar session, participants will have gained an understanding of the following:

- Identify the common inefficiencies, energy losses, and maintenance issues in industrial compressed air systems.
- Understand the advance innovations technologies such as IoT-enabled monitoring by using CCMS, AI-driven optimization and VSD compressors to enhance system performance.
- Improve energy efficiency by the best practices for reducing compressed air energy consumption through leak detection, heat recovery, and system right-sizing.
- Identify common hazards and understand how to mitigate them.
- Enhance air quality & reliability by selection of the appropriate filtration, drying, and oil-free compressor solutions to meet industry air quality standards (ISO 8573).
- Implement smart maintenance strategies by implement of the predictive maintenance tools and real-time monitoring systems to reduce downtime and extend equipment life.
- Explore future trends & sustainability by gain insights into upcoming innovations like hydrogen integration, digital twins, and AI-driven automation.

A) Next Step in Industrial Compressed Air System Technology – Innovations & Future Trends - 2/3

- Reducing heat and energy saving through innovation green energy compressed air system technology.
- Understand the important of the air compressed audit control and implementation.

3) Course Methodology:
Lectures will be conducted in both English and Bahasa Malaysia, with PowerPoint presentation slides provided in English to cover all topics.

4) Syllabus:
All course syllabuses are developed in accordance with the guidelines outlined in the Industrial Air Compressor Standard Practice.

5) Course Content:
- Introduction & Overview
- Current Challenges in Compressed Air Systems
- Smart & IoT-Enabled Compressed Air Systems
- Energy Efficiency Enhancements
- Advanced Air Treatment & Quality Control
- Advance Green Energy Compressed Air System
- Future Trends in Compressed Air Technology
- Implementation Strategies for Industry
- Q/A and Discussion

6) Target Participant:
- Design Manager / Engineer
- Production Manager / Engineer
- Production Supervisor / Technician
- Facility / Maintenance Manager / Engineer
- Facility / Maintenance Supervisor / Technician
- Service Manager / Engineer
- Service Supervisor / Technician

A) Next Step in Industrial Compressed Air System Technology – Innovations & Future Trends - 3/3

7) Seminar Materials:

1. PP Slides - PDF
2. PS Air Compressor Engineering and Training Academy Booklet - PDF
3. A Certificate of Attendance from PS Air Compressor Engineering and Training Academy will be awarded to participants upon the completion of their training hours. (PDF)

8) Course Duration:

Two (2) hours training duration from 2000hr – 2200hr (2 hours)

9) Number of Participants:

No limit

B) Industrial Air Compressor Safe Handling and Operation Training – 2 Days - 1/3

This is In-house or Public Face to Face theory classroom 2 days training program. Certificate of Attendance will be awarded upon completion of training.
(Theory Classroom – 2 days)
Note: - If the training program is held at the company's own facilities as an in-house course, a site visit to the plant's compressor systems will be part of the training.

1) Course Purposed:
The purpose of this training program aims to equip participants with the essential knowledge and practical skills required to safely and efficiently operate, maintain, and troubleshoot industrial air compressors. The program emphasizes workplace safety, preventive maintenance, and operational best practices to minimize risks, enhance equipment performance, and ensure compliance with industry standards.
By the end of this training, participants will be capable of handling air compressors confidently, reducing downtime, and preventing accidents, ultimately contributing to a safer and more productive work environment.

2) Course Objective:
By the conclusion of the training course, participants will have gained an understanding of the following:

- Identify different types of industrial air compressors and their applications.
- Explain the working principles and key components of air compressors.
- Recognize potential hazards associated with compressed air systems.
- Apply appropriate personal protective equipment (PPE) for safe operation.
- Follow industry best practices for handling compressed air safely.
- Identify proper installation requirements, including ventilation and electrical setup.
- Conduct pre-startup inspections and safely start an air compressor.
- Follow standard operating procedures, including monitoring pressure, temperature, and moisture levels.
- Demonstrate proper loading, unloading, and shutdown techniques.
- Implement routine maintenance schedules, including lubrication, filter replacements, and draining moisture traps.
- Inspect belts, couplings, and electrical components for wear and potential failures.

B) Industrial Air Compressor Safe Handling and Operation Training – 2 Days - 2/3

- Diagnose and resolve common problems such as overheating, pressure fluctuations, and leaks.
- Address air quality issues, oil contamination, and mechanical faults.

3) Course Methodology:

Lectures will be delivered in both English and Bahasa Malaysia, and all handout materials will be available in English. The PowerPoint slides will also be in English and will cover all pertinent topics

4) Syllabus:

All course syllabuses are formulated in alignment with the guidelines of the Industrial Air Compressor Safe Handling and Operation Standard Practice.

5) Course Content:

- Introduction to Air Compressors
- Components and Working Principles
- Safe Handling & Personal Protective Equipment
- Installation & Start-Up Procedures
- Standard Operating Procedures
- Preventive Maintenance
- Troubleshooting Common Issues
- Q/A and Discussion

6) Target Participant:

- Design Manager / Engineer
- Production Manager / Engineer
- Production Supervisor / Technician
- Facility / Maintenance Manager / Engineer
- Facility / Maintenance Supervisor / Technician
- Service Manager / Engineer
- Service Supervisor / Technician

B) Industrial Air Compressor Safe Handling and Operation Training – 2 Days - 3/3

7) Seminar Materials:
Hands-out hard copy

8) Course Duration:
Two (2) days training duration from 0900hr – 1700hr (14 hours).

9) Number of Participants:
Max 10 to 15 pax

10) Certificate:
Participants who successfully fulfill the classroom training requirements and attend the specified training sessions will be awarded a Certificate of Attendance from PS Air Compressor Engineering and Training Academy.

C) Industrial Green Energy Air Compressor Engineering and Monitoring Technology - 2 Days - 1/3

This is In-house or Public Face to Face theory classroom 2 days training program. Certificate of Attendance will be awarded upon completion of training.
(Theory Classroom – 2 days)
Note: - If the training program is held at the company's own facilities as an in-house course, a site visit to the plant's compressor systems will be part of the training.

1) Course Purposed:
The purpose of this training is to provide participants with a comprehensive understanding of Industrial Green Energy Air Compressors, focusing on their engineering principles, energy efficiency optimization, and advanced monitoring technologies.
The program aims to equip attendees with the basic knowledge and skills needed to design, operate, and maintain sustainable, energy-efficient air compressor systems while meeting industry standards and contributing to environmental and cost-saving initiatives.

2) Course Objective:
By the conclusion of the training course, participants will have gained an understanding of the following:

- Understand the working principles, types, and applications of industrial air compressors.
- Gain insights into the role of air compressors in green energy and sustainable industrial processes.
- Analyze efficiency metrics such as specific power, isentropic efficiency, and volumetric efficiency.
- Understand material and design considerations for energy-efficient and sustainable systems.
- Identify and implement energy-saving strategies, such as the use of Variable Speed Drives (VSDs) and heat recovery systems.
- Detect and minimize energy losses through advanced leak detection techniques.
- Apply best practices for optimizing compressed air systems in industrial settings.
- Familiarize with relevant international standards (e.g., ISO 8573, ISO 50001) and industry certifications (e.g., Energy Star, LEED).
- Understand environmental and sustainability goals related to air compressor systems.
- Utilize IoT-based tools and technologies to monitor system performance in real-time.

C) Industrial Green Energy Air Compressor Engineering and Monitoring Technology - 2 Days - 2/3

- Develop skills in predictive and preventive maintenance for maximizing uptime.
- Solve common challenges in energy-efficient air compression systems using real-world examples.
- Explore emerging trends in air compressor technology, including hydrogen-powered systems and digital twins.
- Learn about advanced tools for system simulation and optimization.

3) Course Methodology

Lectures are conducted in both English and Bahasa Malaysia, with all handout notes and PowerPoint presentation slides provided in English to cover all topics.

4) Syllabus:

All course syllabuses are developed in accordance with the guidelines outlined in the Green Energy PS Air Compressor Standard Practice.

5) Course Content:

- Introduction to Air Compressors and Green Energy
- Engineering Principles of Air Compressors
- Energy Efficiency and Optimization
- Standards, Regulations, and Compliance
- Monitoring and IoT Integration
- Case Studies and Real-World Applications
- Advanced Topics and Emerging Trends
- Q/A and Discussion

6) Target Participant:

- Design Manager / Engineer
- Production Manager / Engineer / Supervisor
- Facility / Maintenance Manager / Engineer
- Facility / Maintenance Supervisor / Technician
- Service Manager / Engineer / Supervisor / Technician

C) Industrial Green Energy Air Compressor Engineering and Monitoring Technology - 2 Days - 3/3

7) Seminar Materials:
Hands-out hard copy

8) Course Duration:
Two (2) days training duration from 0900hr – 1700hr (14 hours).

9) Number of Participants:
Max 10 to 15 pax

10) Certificate:
A Certificate of Attendance from PS Air Compressor Engineering and Training Academy will be awarded to participants who successfully complete the classroom training syllabus and attend the training sessions.

D) Industrial Air Compressor Critical Maintenance Skills Training – 5 Days - 1/4

This is Public Face to Face theory classroom and hands-on practical with Full-Scale Training Kit 5 days technical competency training program. Certificate of Technical Competency in Air Compressor Maintenance and Services will be awarded upon pass theory and hands-on practical evaluation as well as completion of training.
(Theory Classroom – 3 days)
(Hands-on Practical on the Training Kit- 2 day)

1) Course Purposed:
The Critical Air Compressor Maintenance Training is designed to equip participants with the essential knowledge and practical skills to effectively maintain, troubleshoot, and optimize air compressor systems. This program ensures safe operation, minimizes downtime, and improves energy efficiency by focusing on preventive and corrective maintenance techniques. Through a combination of classroom theory and hands-on training with the full-scale equipped real functional air compressor units including air reservoir tank, dryer, air pipeline and air compressor performance audit system equipment training kit. Participants will gain the expertise needed to enhance the reliability and performance as a competent personal in air compressors maintenance and services in industrial applications.

2) Course Objective:
By the conclusion of the training course, participants will have gained an understanding of the following:

- Gain a comprehensive understanding of different types of air compressors, their working principles, and the components of a compressed air system.
- Conduct thorough inspections, oil changes, filter replacements, and lubrication tasks to ensure smooth compressor operations.
- Develop a strong grasp of maintenance schedules and follow manufacturer guidelines to maximize compressor lifespan.
- Identify, diagnose, and resolve issues like overheating, vibration, leaks, and electrical faults using systematic troubleshooting techniques.
- Perform root cause analysis to address and prevent recurring problems.
- Understand and adhere to best practices for safe operation and maintenance of air compressors.

D) Industrial Air Compressor Critical Maintenance Skills Training – 5 Days - 2/4

- Recognize and mitigate common hazards related to air compressors to ensure workplace safety.
- Monitor key performance indicators (KPIs) such as pressure, flow, and temperature to ensure efficient compressor operation.
- Identify air leaks, energy waste, and efficiency issues, and apply corrective actions to reduce operational costs and improve system performance.
- Work on advanced maintenance tasks, including bearing replacements, motor servicing, and calibration of safety devices.
- Conduct performance testing after repairs and maintenance to verify correct functionality.
- Develop the skills necessary to independently manage compressor maintenance in a real-world industrial environment.
- Build confidence in handling hands-on maintenance tasks, from disassembly and inspection to reassembly and testing.

3) Course Methodology

Lectures will be conducted in both English and Bahasa Malaysia, with all handout notes provided in English and PowerPoint presentation slides covering all topics in English. Practical sessions will involve the use of the Full-Scale Air Compressor Training Kit and the Real-Time Compressor Centralized Monitoring System (CCMS)

4) Syllabus:

All course syllabuses are developed and created in accordance with the guidelines of the Industrial Air Compressor Service and Maintenance Standard Practice

5) Course Modules and Topics:

- Introduction to Air Compressors
- Working Principles of Air Compressors
- Key Components & Functions
- Common Faults and Troubleshooting
- Maintenance Best Practices
- Predictive Maintenance Techniques

D) Industrial Air Compressor Critical Maintenance Skills Training – 5 Days - 3/4

- Hands-on Maintenance on the Air Compressor Full-Scale Training Kit:
  - Compressor System Walkthrough – Practical
  - Component Disassembly and Inspection
  - Fault Diagnosis and Repair – Practical
  - Performance Testing & Optimization – Practical
  - Troubleshooting Exercises
- System Testing and Reporting
- Final Assessment
- Certification
- Q & A

6) Target Participant:

- Design Manager / Engineer
- Production Manager / Engineer
- Facility / Maintenance Manager / Engineer
- Facility / Maintenance Supervisor / Technician
- Service Manager / Engineer / Technician

7) Seminar Materials:

1. Handout hard copy.
2. Hands-on practical by using the Full-Scale Air Compressor Training Kit and Real-Time Compressor Centralized Monitoring System (CCMS).

8) Competency Passing Mark:

1. Classroom Theory – 80%
2. Hands-on Practical – 80%

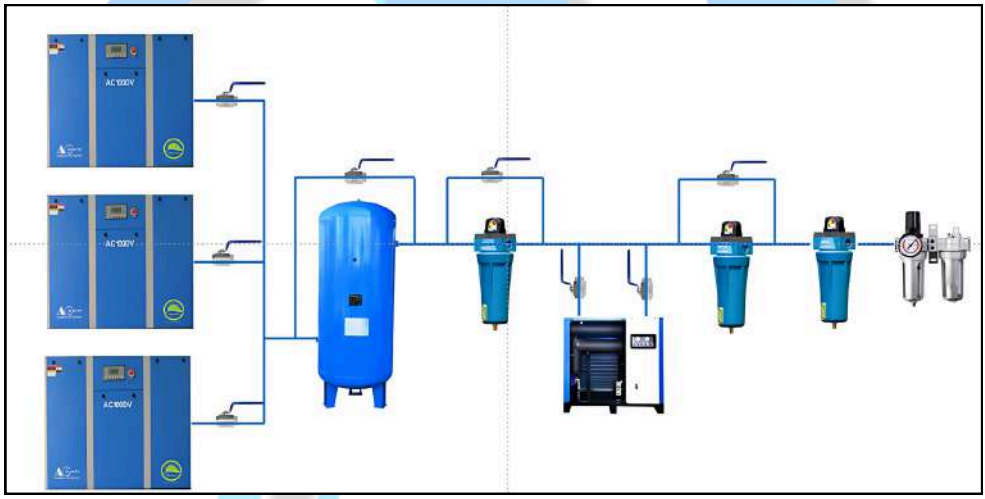
9) Course Duration:

Five (5) days training duration from 0900hr – 1700hr (35 hours).
Theory Classroom – 3 days (21 hours)
Hands-on Practical – 2 days (14 hours)

D) Industrial Air Compressor Critical Maintenance Skills Training – 5 Days - 4/4

10) Number of Participants:
Max 10 to 15 pax

11) Certificate:
A Certificate of Competency in Air Compressor Maintenance and Services will be awarded by PS Air Compressor Engineering and Training Academy to participants who successfully complete both the theoretical and practical tests, in addition to fulfilling the training day requirements.



Full-Scale PS Air Compressor Maintenance Training Kit - Arrangement

E) Industrial Air Compressor - Competency Air Leak Audit Inspection and Reporting – 3 Days - 1/4

This is Public Face to Face theory classroom and hands-on practical with Ultrasonic Leak Detector (ULD) Full-Scale Training Kit 3 days technical competency training program. Certificate of Technical Competency in Air Compressor Air Leak Audit will be awarded upon pass theory and hands-on practical evaluation as well as completion of training.
(Theory Classroom – 2day)
(Hands-on Practical on the Training Kit- 1 day)

1) Course Purposed:
The Air Compressor Air Leak Audit Course is designed to equip participants with the knowledge and skills to identify, assess, and repair air leaks in compressed air systems. Participants will learn about air compressor systems, the causes and impacts of air leaks, energy losses, leak detection methods, and best practices for prevention and maintenance.
Participants will gain practical experience using the Ultrasonic Leak Detector (ULD), identifying common leaks, performing repairs, and implementing monitoring techniques to ensure system efficiency.
This course aims to enhance energy efficiency, reduce operational costs, and improve the reliability of compressed air systems.

2) Course Objective:
By the conclusion of the training course, participants will have gained an understanding of the following:

- Grasp the fundamental components, operation, and common issues in compressed air systems.
- Recognize the causes and impacts of air leaks and accurately locate them using manual and advanced detection tools.
- Calculate the energy losses and financial implications associated with air leaks.
- Apply effective techniques to seal leaks and perform basic maintenance to restore system efficiency.
- Develop strategies to prevent future leaks through proper system design, maintenance, and monitoring.
- Ensure sustained improvements in system performance, energy savings, and environmental benefits.

E) Industrial Air Compressor - Competency Air Leak Audit Inspection and Reporting – 3 Days - 2/4

3) Course Methodology:
Lectures will be conducted in both English and Bahasa Malaysia, with all handout notes provided in English. PowerPoint presentation slides will also be in English, covering all relevant topics. Participants will engage in hands-on practical training using the Full-Scale Ultrasonic Leak Detector (ULD) Training Kit.

4) Syllabus:
All course syllabuses were designed in accordance with the guidelines set forth in the Industrial Compressed Air Leak Audit Standard Practice.

5) Course Content:
- Introduction to Air Compressors and Their Systems
- Understanding Air Leaks
- Energy Loss Due to Air Leaks
- Leak Detection Methods
- Leak Prevention and Best Practices
- Leak Detection with Tools
- Identifying Common Leaks
- Repair and Maintenance Techniques
- Monitoring and Continuous Improvement
- Hands-on Practical on the ULD Full-Scale Training Kit
- Practical Report Preparation
- Theory Evaluation

6) Target Participant:
- Design Manager / Engineer
- Production Manager / Engineer
- Facility / Maintenance Manager / Engineer
- Facility / Maintenance Supervisor / Technician
- Service Manager / Engineer

E) Industrial Air Compressor - Competency Air Leak Audit Inspection and Reporting – 3 Days - 3/4

7) Seminar Materials:

1. Hands-out hard copy.
2. Hands-on practical by using the Full-Scale Ultrasonic Leak Detector (ULD) Training Kit.

8) Competency Passing Mark:

1. Classroom Theory – 80%
2. Hands-on Practical – 80%

9) Course Duration:

Three (3) days training duration from 0900hr – 1700hr (21 hours).
Theory Classroom – 2 days (14 hours)
Hands-on Practical – 1 day (7 hours)

10) Number of Participants:

Max 10 to 15 pax

11) Certificate:

Participants who successfully complete the theory and practical components of the training program, as well as fulfill the required training days, will be awarded a Certificate of Competency in Air Compressor Air Leak Audit from PS Air Compressor Engineering and Training Academy.

E) Industrial Air Compressor - Competency Air Leak Audit Inspection and Reporting – 3 Days - 4/4

Full-Scale PS Air Compressor ULD Audit Training Kit - Arrangement

F) Industrial Air Compressor - Competency Performance Audit Inspection and Reporting – 4 Days - 1/4

This is Public Face to Face theory classroom and hands-on practical with Full-Scale System Air Compressor Performance Audit Training Kit 4 days technical competency training program. Certificate of Technical Competency in Air Compressor Performance Audit will be awarded upon pass theory and hands-on practical evaluation as well as completion of training.
(Theory Classroom – 2.5 day)
(Hands-on Practical on the Training Kit- 1.5 day)

1) Course Purposed:
The Air Compressor Performance Audit Training aims to equip participants with the knowledge and skills required to assess, analyze, and optimize air compressor systems for maximum efficiency and cost savings. Through a blend of theoretical sessions and hands-on practical exercises, participants will learn the fundamentals of air compressor operation and performance metrics by conduct detailed performance audits using advanced tools and techniques.
Identify inefficiencies such as leaks, air flow rate, pressure drops, filter condition, oil condition, dryer condition, reservoir tank condition, pipeline, vibration and energy losses, and implement practical solutions to enhance system performance and reduce operational costs as well as adhere to industry standards and adopt best practices in compressed air system management.
This course empowers professionals to improve the energy efficiency of compressed air systems, contribute to sustainable industrial practices, and drive operational excellence.

2) Course Objective:
By the conclusion of the training course, participants will have gained an understanding of the following:

- Describe the working principles of various types of air compressors.
- Identify the key components and their functions.
- Explain the significance of dew point pressure, flow rate, and energy efficiency in air compressor performance.
- Measure and interpret key performance parameters such as pressure, flow rate, power consumption, and efficiency.
- Evaluate compressor load patterns and identify areas of energy wastage.

F) Industrial Air Compressor - Competency Performance Audit Inspection and Reporting – 4 Days - 2/4

- Plan and execute a full air compressor performance audit.
- Utilize specialized tools and instruments for data collection and analysis.
- Identify inefficiencies, such as leaks, pressure drops, or incorrect settings, and their impact on performance.
- Recommend practical solutions to improve system efficiency and reduce energy costs.
- Diagnose and resolve common operational issues in compressed air systems.
- Understand the root causes of inefficiencies and propose corrective measures.
- Compile audit findings into structured, actionable reports.
- Present recommendations to stakeholders with clear cost-saving and energy-efficient strategies.
- Adhere to relevant ISO, ASME, and other industry standards for air compressor performance and safety.
- Incorporate preventive maintenance strategies to sustain long-term efficiency.
- Gain practical experience in using a full-scale training kit for real-time performance assessments.
- Confidently operate tools such as flow meters, ultrasonic leak detectors, and power analyzers.

3) Course Methodology:

Lectures will be delivered in both English and Bahasa Malaysia, with all supplementary materials provided in English. PowerPoint presentation slides will cover all topics. Practical sessions will utilize the Full-Scale Air Compressor Performance Audit Training Kit.

4) Syllabus:

All course syllabuses are created and developed in accordance with the relevant ISO and ASME Industrial Air Compressor Performance Audit Standard Practice guidelines.

5) Course Content:

- Introduction to Air Compressors
- Air Compressor Performance Parameters
- Energy and Cost Implications

F) Industrial Air Compressor - Competency Performance Audit Inspection and Reporting – 4 Days - 3/4

- Standards and Best Practices
- Introduction to Performance Auditing
- Audit Methodology
- Troubleshooting and Problem Solving
- Reporting and Recommendations
- Familiarization with the Training Kit
- Conducting a Performance Audit
- System Optimization
- Hands-on Practical on the Air Compressor Performance Audit Full-Scale Training Kit
- Practical Report Preparation
- Theory Evaluation

6) Target Participant:

- Design Manager / Engineer
- Production Manager / Engineer
- Facility / Maintenance Manager / Engineer
- Facility / Maintenance Supervisor / Technician
- Service Manager / Engineer

7) Seminar Materials:

1. Hands-out hard copy.
2. Hands-on practical by using the Full-Scale Air Compressor Performance Audit Training Kit.

8) Competency Passing Mark:

1. Classroom Theory – 80%
2. Hands-on Practical – 80%

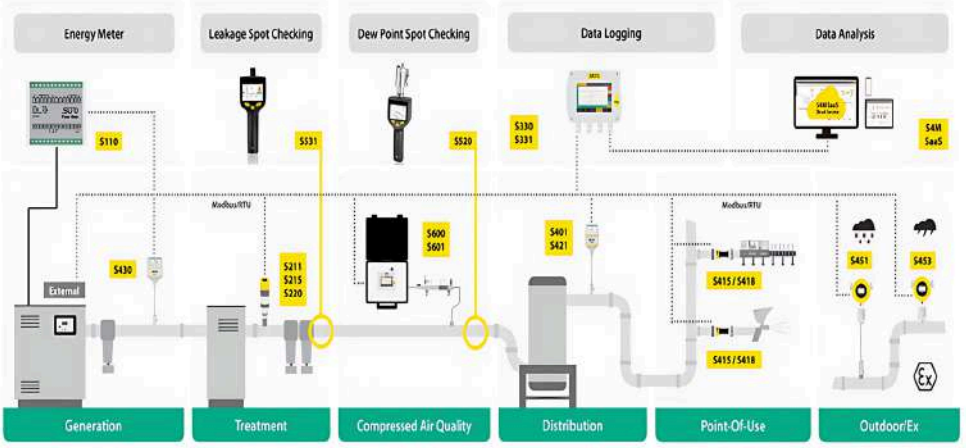
9) Course Duration:

Four (4) days training duration from 0900hr – 1700hr (28 hours).
Theory Classroom – 2.5 days (17.5 hours)
Hands-on Practical – 1.5 day (10.5 hours)

F) Industrial Air Compressor - Competency Performance Audit Inspection and Reporting – 4 Days - 4/4

10) Number of Participants:
Max 10 to 15 pax

11) Certificate:
Participants who successfully complete the theory and practical components of the training, along with the required training days, will be awarded a Certificate of Competency in Air Compressor Performance Audit from PS Air Compressor Engineering and Training Academy.



Full-Scale PS Air Compressor Performance Audit Training Kit - Arrangement

G) Green Energy Industrial Air Compressor -Engineering Design and Implementation – 2 Days - 1/3

This is Public Face to Face or Online theory classroom 2 days engineer training program. Certificate of Attendance will be awarded upon completion of training.
(Theory Classroom – 2 day)

1) Course Purposed:

The "Green Energy Industrial Air Compressor - Engineering Design and Implementation" training course is designed to equip participants with the knowledge and skills to integrate sustainable, energy-efficient solutions into industrial air compressor systems. The course covers the fundamentals of air compressors, green energy principles, and advanced technologies that reduce energy consumption and environmental impact.

Participants will learn how to design, optimize, and implement air compressor systems that utilize renewable energy sources like solar and wind. Through practical exercises and real-world case studies, attendees will gain the expertise to assess existing systems, apply energy-saving strategies, and stay ahead of industry innovations. Ultimately, the training prepares participants to lead initiatives for more sustainable and cost-efficient industrial operations.

2) Course Objective:

By the conclusion of the training course, participants will have gained an understanding of the following:

- Identify key sustainable practices and technologies that can be applied to industrial systems.
- Describe the working principles of different types of industrial air compressors (e.g., reciprocating, rotary screw, centrifugal).
- Assess the role of air compressors in industrial processes and their energy consumption patterns.
- Apply green design principles to optimize air compressor efficiency and reduce energy consumption.
- Select and size compressors based on energy efficiency considerations and operational requirements.
- Incorporate renewable energy solutions, such as solar, wind, and hybrid systems, into compressor designs.
- Perform energy audits and evaluations on existing air compressor systems to identify efficiency gaps.

G) Green Energy Industrial Air Compressor -Engineering Design and Implementation – 2 Days - 2/3

- Use diagnostic tools and performance monitoring techniques to optimize compressor operations and reduce wasteful energy consumption.
- Develop strategies to integrate renewable energy sources (solar, wind, geothermal) into industrial compressor systems for sustainable energy use.
- Understand how to hybridize traditional and green energy sources for more efficient power supply to air compressors.
- Implement best maintenance practices to ensure long-term energy efficiency and performance of air compressors.
- Stay informed about the latest trends in compressor technology, including the use of AI, IoT, and smart technologies.
- Understand regulatory standards and incentives related to green energy integration in industrial systems.
- Apply learned concepts through hands-on training, evaluating real-world systems and making recommendations for improvement.
- Engage in real-time troubleshooting and optimization activities to reinforce theoretical knowledge.

3) Course Methodology

Lectures will be conducted in both English and Bahasa Malaysia, with all handout materials provided in English. PowerPoint presentation slides will also be in English to cover all topics.

4) Syllabus:

All course syllabuses are developed and created in accordance with the guidelines outlined in the PS Air - Green Energy Air Compressor Design and Implementation Standard Practice.

G) Green Energy Industrial Air Compressor -Engineering Design and Implementation – 2 Days - 3/3

5) Course Content:

- Introduction to Industrial Air Compressors
- Basic Engineering Principles
- Air Compressor Selection and Sizing
- Compressor Components & Design
- Air Compressor System Design and Integration
- Installation and Commissioning
- Maintenance and Troubleshooting
- Case Studies
- Group Project Discussion and Practical Application

6) Target Participant:

- Design Manager
- Design Engineer

7) Seminar Materials:

Hands-out hard copy

8) Course Duration:

Two (2) days training duration from 0900hr – 1700hr (14 hours).

9) Number of Participants:

Max 10 to 15 pax

10)Certificate:

Participants who successfully complete the classroom training syllabus and attend the designated training days will receive a Certificate of Attendance from PS Air Compressor Engineering and Training Academy.

H) Industrial Air Compressor - Competency IR 4 Compressor Centralized Monitoring System (CCMS) Technology – 3 Days - 1/4

This is Public Face to Face theory classroom and hands-on practical with Full-Scale Air Compressor Centralized Monitoring System (CCMS) Training Kit 3 days technical competency training program. Certificate of Technical Competency in Air Compressor Centralized Monitoring System - CCMS will be awarded upon pass theory and hands-on practical evaluation as well as completion of training.
(Theory Classroom – 2 day)
(Hands-on Practical on the Training Kit- 1 day)

1) Course Purposed:
The purpose of this training program is to equip participants with the knowledge and practical skills required to effectively operate, monitor, and maintain the Industrial Air Compressor IR 4 Centralized Monitoring System - CCMS.
Through a combination of classroom theory and hands-on practical training, participants will gain:

- A solid understanding of air compressor functionality and the role of continuous monitoring systems.
- Expertise in setting up, configuring, and troubleshooting the IR 4 system.
- The ability to interpret real-time data for optimizing compressor performance and implementing predictive maintenance strategies.

By the end of the course, participants will be prepared to enhance operational efficiency, minimize downtime, and ensure the long-term reliability of industrial air compressor systems.

2) Course Objective:
By the conclusion of the training course, participants will have gained an understanding of the following:

- Explain the working principles, components, and applications of the IR 4 industrial air compressor.
- Identify key specifications and operational parameters.
- Set up and configure the monitoring system hardware and software.
- Interpret real-time data, including pressure, temperature, vibration, and power consumption trends.
- Diagnose common system issues using the continuous monitoring interface.

H) Industrial Air Compressor - Competency IR 4 Compressor Centralized Monitoring System (CCMS) Technology – 3 Days - 2/4

- Calibrate sensors, update software, and reset system components.
- Respond to system alerts and take appropriate corrective actions.
- Use data analytics tools to predict system failures and schedule preventive maintenance.
- Minimize downtime and improve system efficiency through proactive monitoring.
- Apply knowledge of continuous monitoring to various industrial setups.
- Understand how the IR 4 monitoring system enhances performance and operational reliability.
- Confidently use the IR 4 training kit to set up, configure, and troubleshoot the system.
- Address simulated fault conditions with practical solutions.

3) Course Methodology:

Lectures will be conducted in both English and Bahasa Malaysia, with all handout materials provided in English. PowerPoint presentation slides will also be in English, covering all topics comprehensively. There will be hands-on practical sessions using the Full-Scale IR4 Compressor Centralized Monitoring System (CCMS) Training Kit.

4) Syllabus:

All course syllabuses are developed and crafted in accordance with the PS Air Compressor IR4 CCMS Standard Practice guidelines.

5) Course Content:

- Overview of Industrial Air Compressors
- Continuous Monitoring System Basics
- Understanding System Architecture
- System Installation and Configuration
- Data Analysis and Maintenance
- Industry Applications
- Hands-on Practical training with the IR 4 Full-Scale Training Kit
- Practical Report
- Theory Evaluation

H) Industrial Air Compressor - Competency IR 4 Compressor Centralized Monitoring System (CCMS) Technology – 3 Days - 3/4

6) Target Participant:

- Design Manager / Engineer
- Production Manager / Engineer
- Facility / Maintenance Manager / Engineer
- Facility / Maintenance Supervisor / Technician
- Service Manager / Engineer

7) Seminar Materials:

1. Hands-out hard copy.
2. Hands-on practical by using the Full-Scale IR 4 CCMS Full-Scale Training Kit.

8) Competency Passing Mark:

1. Classroom Theory – 80%
2. Hands-on Practical – 80%

9) Course Duration:

Three (3) days training duration from 0900hr – 1700hr (21 hours).
Theory Classroom – 2 days (14 hours)
Hands-on Practical – 1 day (7 hours)

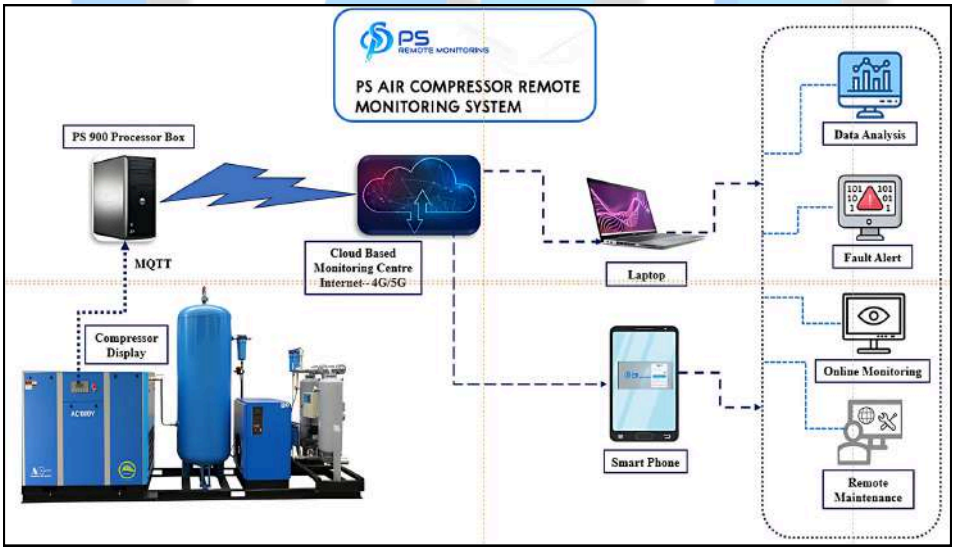
10) Number of Participants:

Max 10 to 15 pax

11)Certificate:

A Certificate of Competency in the Air Compressor Centralized Monitoring System will be awarded by PS Air Compressor Engineering and Training Academy to participants who successfully pass both the theoretical and practical exams, as well as complete all training days.

H) Industrial Air Compressor - Competency IR 4 Compressor Centralized Monitoring System (CCMS) Technology – 3 Days - 4/4



Full-Scale PS Air Compressor Centralised Monitoring System Training Kit - Arrangement

3) Lists of PS Air Compressor Engineering and Training Academy Industrial Training Courses

Our diverse range of training courses includes:

A) Industrial Safety Based Training Courses

B) Industrial Development Training Courses

C) Industrial Technical Based Training Courses

D) Industrial Technical Competency Based Training Courses

E) Industrial Maintenance Based Training Courses

F) Industrial Crane & Material Handling Training Courses

G) Industrial Operator Competency Based Training Courses (FMA - Act 139 and OSHA - Act 514)

H) Certification Inspector Competency Training Courses

I) Offshore Operation Based Training Courses

J) ISO Awareness and Internal Auditor Training Courses

A) Industrial Safety Based Training Courses

A) Industrial Safety Based Training Courses –1/2

Principle of Manual Handling In Workplace	2 Days
Essentials of Health and Safety	2 Days
Process Safety Management	2 Days
Safety Handling of Chemical	2 Days
Fire Management and Fire Fighting Safety	2 Days
Working At Heights	2 Days
Hearing Protection Training	2 Days

A) Industrial Safety Based Training Courses –2/2

Industry Electrical Safety	2 Days	
Basic Industry Safety Awareness	2 Days	
Industrial Dump Truck Operator Safety Handling	2 Days	
Hazard Identification, Risk Assessment and Risk Control (HIRARC)	3 Days	
Forming the Industrial Firefighter Team	3 Days	
Emergency Response Team (ERT) and Management	3 Days	

B) Industrial Development Training Courses

B) Industrial Development Training Courses – 1/5

Advance Production Quality Planning (APQP)	3 Days	
Failure Mode Effect Analysis (FMEA)	3 Days	
Measurement System Analysis (MSA)	3 Days	
Statistical Process Control (SPC)	3 Days	
Production Part Approval Process (PPAP)	3 Days	
Overall Equipment Effectiveness (OEE)	3 Days	

B) Industrial Development Training Courses – 2/5

IATF 16949 Quality Core Tools Awareness	3 Days
IATF 16949 Quality Core Tools Implementation and Control	3 Days
7 QC Tools - Basic Standard and New	3 Days
8D Problem Solving Tools	2 Days
Root Cause Analysis Problem Solving Tools (RCA)	2 Days
Essential of PoKa-YoKe Technique of Error Proof	2 Days
6 Thinking Hats Problem Solving Tools	2 Days
5S & 6S Implementation and Establishment	2 Days

B) Industrial Development Training Courses – 3/5

Subject Matter Expert (SME) (Train the Trainer - Individual Section Trainer)	3 Days
Technical Training Section Set-Up and Development	3 Days
Technical Training Competency Based Development	3 Days
Effective and Productive Manager Skills	2 Days
Effective and Productive Engineer Skills	2 Days
Effective Production Supervisor Skills	2 Days
Effective and Productive In Design and Implementation	2 Days

B) Industrial Development Training Courses – 4/5

Technical Drawing Training	2 Days
Warehouse Effective Management Skills	2 Days
Industrial Defensive Driving Skills	2 Days
Flexible Steel Wire Rope (FSWR) Identify, Installation, Inspection, Rejection, Selection, Maintenance and Storage	3 Days
Engineering Hand Tools Handling and Effective Application	2 Days
Industrial Power Tools Handling and Effective Application	2 Days
Geometry, Dimension and Tolerance (GD & T) Training	2 Days

B) Industrial Development Training Courses – 5/5

Shop Floor Management Training	2 Days
Lean Six Sigma Awareness Training	2 Days
Clean Room Design Training	3 Days

C) Industrial Technical Based Training Courses

C) Industrial Technical Based Training Courses

Industrial Hydraulic Engineering Technology	3 Days	
Hydraulic Course for the Non-Hydraulic Technical Personnel (Domestic & Industrial)	2 Days	
Industrial Electro-Hydraulic and Pneumatic Technology	2 Days	
Electrical Course for Non-Electrical Technical Personnel (Domestic & Industrial)	2 Days	
Industrial Corrosion Protection Technology	2 Days	

D) Industrial Technical Competency Based Training Courses

D) Industrial Technical Competency Based Training Courses –1/2

Industrial Hydraulic Technology & Application Certification Training	4 Days
Intermediate Industrial Hydraulic System	4 Days
Advance Industrial Hydraulic System	4 Days
Basic Industrial Electrical System (Low Voltage)	4 Days
Intermediate Industrial Electrical System (Low Voltage)	4 Days

D) Industrial Technical Competency Based Training Courses –2/2

Advance Industrial Electrical System (Low Voltage)	4 Days	
Rigging and Slinging Training for Rigger (ASME B30)	3 Days	
Onshore Lift Supervisor Training	3 Days	
Elevator and Escalator Trainer -Train The Trainer (TTT) Training for Institute Instructors	5 Days	
Welder Certification Program for following Welding Process: -SAW, SMAW, MIG, FCAW, GTAW (TIG)	5 Days	
Hydraulic Bolt Torque and Tensioning Competency Training-ASME PCC - 1-2010	4 Days	

E) Industrial Maintenance Based Training Courses

E) Industrial Maintenance Based Training Courses –1/3

Total Preventive Maintenance (TPM)	2 Days
Preventive Maintenance (PM)	2 Days
Predictive Maintenance (PdM)	2 Days
Autonomous Maintenance (AM)	2 Days

E) Industrial Maintenance Based Training Courses –2/3

Machinery Preventive Maintenance (MPM)	2 Days	
Mechanical Preventive Maintenance (MechPM)	2 Days	
Hydraulic Preventive Maintenance (HydPM)	2 Days	
Automotive Preventive Maintenance (AutoPM) – Light and Heavy Vehicle	2 Days	
Pneumatics Preventive Maintenance (PneuPM)	2 Days	
Electrical Preventive Maintenance (ElecPM) - Switchgear	2 Days	

E) Industrial Maintenance Based Training Courses –1/3

Critical Maintenance Skills for the Automotive – Light and Heavy Vehicle – Competency Based	4 Days	
Critical Maintenance Skills for the Elevator and Escalator – Competency Based	4 Days	
Critical Maintenance Skills for Industrial Hydraulic System – Competency Based	4 Days	
Critical Maintenance Skills for Industrial Pneumatic System – Competency Based	4 Days	

F) Industrial Crane Material Handling Training Courses

F) Industrial Crane Material Handling Training Courses – Safe Handling and Engineering Design

Cranes Load Rating Chart Interpretation	2 Days
Overhead Travelling Crane (OTC) for DOSH Manufacturing License Renewal	3 Days
Tower Crane Design, Implementation and Operation	3 Days
Tower Crane Safe Operation, Maintenance and Inspection (Basic Level)	3 Days
Mobile Crane Safe Operation, Maintenance and Inspection (Basic Level)	3 Days
Crawler Crane Safe Operation, Maintenance and Inspection (Basic Level)	3 Days





F) Industrial Crane Material Handling Training Courses – Critical Maintenance Skills – Competency Based

Critical Maintenance Skills for the Electric Overhead Traveller Crane (EOTC)	4 Days	
Critical Maintenance Skills for the Ship To Shore (STS) Container Crane	4 Days	
Critical Maintenance Skills for the Rubber Tyred Gantry (RTG) Container Crane	4 Days	
Critical Maintenance Skills for the Container Reach Stacker	4 Days	
Critical Maintenance Skills for the Forklift	4 Days	
Critical Maintenance Skills for the Narrow Aisle Reach Truck	4 Days	

F) Industrial Crane Material Handling Training Courses – Critical Maintenance Skills – Competency Based

Critical Maintenance Skills for the Tower Crane	4 Days	
Critical Maintenance Skills for the Mobile Crane	4 Days	
Critical Maintenance Skills for the Crawler Crane	4 Days	

G) Industrial Operator Competency Based Training Courses - (FMA - Act 139 and OSHA - Act 514)

G) Industrial Operator Competency Based Training Courses - (FMA - Act 139 and OSHA - Act 514)

Electric Overhead Travelling Crane (EOTC) Operator	2 Days
Ship To Shore (STS) Container Crane Operator Certification	2 Days
Rubber Tyre Gantry (RTG) Container Crane Operator Certification	2 Days
Container Reach Stacker Operator Certification	2 Days
Forklift Operator	2 Days
Narrow Aisle Reach Truck Operator	2 Days
Industrial Excavator Operator	2 Days
Industrial Earth-Moving Machinery Operator	2 Days







H) Certification Inspector Competency Courses

H) Certification Inspector Competency Courses –1/2

Overhead Crane Inspector Certification	6 Days	
Ship To Shore (STS) Container Crane Inspector Certification	6 Days	
Rubber Tyred Gantry (RTG) Container Crane Inspector Certification	6 Days	
Container Reach Stacker Inspector Certification	6 Days	
Forklift Inspector Certification	6 Days	
Narrow Aisle Reach Truck Inspector Certification	6 Days	

H) Certification Inspector Competency Courses –2/2

Tower Crane Inspector Certification	6 Days	
Mobile Crane Inspector Certification	6 Days	
Crawler Crane Inspector Certification	6 Days	
Onshore Rigging Inspector Certification	6 Days	

I) Offshore Operation Based Training Courses

I) Offshore Operation Based Training Courses –1/2

Offshore Rigging and Slinging Training for Rigger -API RP2D	4 Days	
Offshore Pedestal Mounted Crane Inspector Certification - API RP 2D	6 Days	
Offshore Pedestal Mounted Crane Mechanical-API RP 2D	3 Days	
Offshore Pedestal Mounted Crane Hydraulic System (DIN ISO 1219)	3 Days	
Offshore Pedestal Mounted Crane Electrical System (IEC 60079)	3 Days	
Offshore Pedestal Mounted Crane Erection / Installation	2 Days	

I) Offshore Operation Based Training Courses –2/2

Offshore Pedestal Mounted Crane Engineering Design (API Specification 2C)	2 Days	
Offshore Pedestal Mounted Crane Familiarization	2 Days	
Offshore Pedestal Mounted Crane Commissioning	2 Days	
Critical Maintenance Skills for the Offshore Mounted Pedestal Crane (API RP 2D)	4 Days	
Offshore Lift Supervisor Training	4 Days	
Offshore and Onshore Lifting Operation	2 Days	

J) ISO Awareness and Internal Auditor Training Courses

J) ISO Awareness and Internal Auditor Training Courses - 1/3

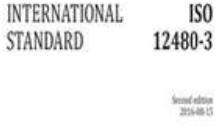
ISO 9001:2015 -Quality Management System Awareness Training	1 Days
ISO 9001:2015 -Quality Management System Internal Auditor Training	2 Days
ISO 14001:2015 -Environmental Management Awareness Training	1 Days
ISO 14001:2015 -Environmental Management Internal Auditor Training	2 Days
ISO 45001:2018 -Occupational Health and Safety Awareness Training	1 Days
ISO 45001:2018 -Occupational Health and Safety Internal Auditor Training	2 Days
ISO 22716:2007 -Cosmetic -Good Manufacturing Practice Awareness Training	1 Days
ISO 22716:2007 -Cosmetic -Good Manufacturing Practice Internal Auditor Training	2 Days
BS EN ISO/IEC 80079-34 -Explosive Atmospheres Application of Quality Systems for Ex Product Manufacture	3 Days

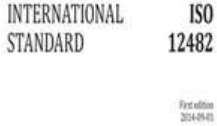
J) ISO Awareness and Internal Auditor Training Courses - 2/3

ISO 22000:2018 – Food Safety Management Awareness Training	1 Days
ISO 22000:2018 – Food Safety Management Internal Auditor Training	2 Days
ISO 5001:2018 – Energy Management Awareness Training	1 Days
ISO 5001:2018 – Energy Management Internal Auditor Training	2 Days
ISO 28004:2004 – Security Management System for Supply Chain Awareness Training	1 Days
ISO 28004:2004 – Security Management System for Supply Chain Internal Audit Training	2 Days
IATF 16949:2016 – Quality Management System Awareness Training	1 Days
IATF 16949:2016 – Quality Management System Internal Auditor Training	2 Days

J) ISO Awareness and Internal Auditor Training Courses - 3/3

AS9100D:2016 International Aerospace Quality Management System Awareness Training	1 Days
AS9100D:2016 International Aerospace Quality Management System Internal Auditor Training	2 Days
Electrostatic Discharge - ANSI/ESD S20.20 – Awareness Training	1 Days
Electrostatic Discharge - ANSI/ESD S20.20 – Internal Auditor Training	2 Days
IPC/WHMA-A-620 Standard Practice Awareness Training	2 Days
ISO 12480 -3:2020 –Safe Use -Tower Crane Training	2 Days
ISO 12480 -2:2020 –Safe Use - Mobile Crane Training	2 Days
ISO 21132:2019 –Marine Crane Operation and Maintenance Training	2 Days
ISO 12482:2014 –Crane Design Monitoring Period Training	2 Days





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PS AIR COMPRESSOR ENGINEERING AND TRAINING ACADEMY

MANAGED BY : PS AIR COMPRESSOR (M) SDN BHD (912267-A)