

PEMBANGUNAN SUMBER MANUSIA BERHAI

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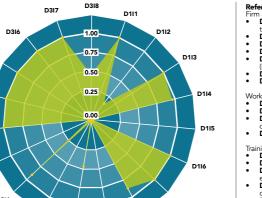


Mining and Quarrying

Malaysia has long been recognised as one of the world's leading producers of tin and non-energy materials, including bauxite, coal, copper, and iron gold. The Mining and Quarrying sector plays a significant role in the country's socioeconomic development since many other major economic sectors rely on the sector's activities and output.

Similar to other sectors, the decline in economic performance was due to the massive hit on economic activity from the Government-imposed movement control orders on businesses to control the spread of COVID-19. This vital sector was affected by financial distress, making it difficult to meet financial obligations. Aligned with the Government's stimulus package, HRD Corp

Index Score: 0.77 (Leader)









shared equitably.

nprovement gains are

Training levy employers to invest in their workforce to increase employee skills, productivity and improve organisational performance.



training experiences

and progress can

be tracked, which

recognising areas to

efficiency, health and

Employees gain consistent experience and background knowledge in an accessible and convenient training

environment that

promotes a culture of

continuous learning.

Quarrying sector were exempted from paying levies for (6) six months, effective April 2020 to September 2020, Meanwhile, in 2021, all registered employers were exempted from paying levies from June until August.

registered employers in the Mining and

The top five (5) active subsectors in the Mining industry with the highest training index scores

> Extraction of Crude Petroleum (0.52); Extraction of Natural Gas (0.34): Mining of Hard Coal (0.30); Quarrying of Stone, Sand and Clay

Support Activities for Petroleum and Natural Gas Extraction (0.29).

- Reference:
 Firm Preparedness and Training Commitment

 Dill: Amount of financial assistance allocated for
- training per worker

 D1I2: Utilisation rate of HRD Corp levy
- D113: Number of employees trained D114: Number of skilled workers trained
- D115: Enrolment in Recognition of Prior Learning **D116:** Availability of training facilities at own premise
- D117: Availability of designated training unit
- **D2I1:** Number of training days attended
- D213: Number of skilled workers who attended D214: Enrolment in practical/hands-on training
- D311: Enrolment in competent training provider D312: Enrolment with certified trainer D3I3: Enrolment in courses with regular content
- D314: Enrolment in training provider for certification
- D3I5: Enrolment in digital training
- D316: Enrolment in regular/repetitive training courses
 D317: Enrolment in training provider with complete
- D318: Enrolment with established training provider





the levy for training



Mandatory training and development programmes should be regularly conducted to improve and safety of all

Employers can attract and retain talented workers by providing training and development opportunities critical for the

As the sector typically deals with technical

and highly skilled jobs, it needs to develop a

comprehensive and strategic plan to attract

In addition, the sector faces a labour shortage,

estimated at approximately 400,000 workers

(CIDB, 2022). Creating a long-term, sustainable

workforce through apprenticeship or TVET

HRD Corp has initiated various programmes

encouraging the industry to improve training

training is necessary to solve this problem.

talented and highly skilled workers.

and development.

Index Score: 0.44 (Adopter)

industry experts and training providers must ne fostered to improve employee skills and retrain the workforce. industry's long-term

Collaboration between Changes in the labour market require

workers to acquire new skills and improve existing ones to meet industry demands.

fficulties in obtaining and retaining skilled vorkers. Ensuring the industry has worker with highly technica skills is vital.

The industry relies

heavily on foreign

labour due to

Agriculture, Forestry & Fishing

The top five (5) subsectors in the Construction The Agriculture, Forestry and Fishing sector industry with the highest training index scores has been Malaysia's economic backbone for many years. Malaysia's current economy is deeply rooted in Agriculture, contributing to

 Construction of Buildings (0.28); 2) Construction of Roads and Railways

Construction

are as follows:

- 3) Construction of Other Civil
- Activities (0.21); and
- 5) Construction of Utility Projects (0.20).

Firm Preparedness and Training Commitment

• D111: Amount of financial assistance allocated for

D115: Enrolment in Recognition of Prior Learning

D1l6: Availability of training facilities at own premise

D112: Utilisation rate of HRD Corp levy

D114: Number of skilled workers trained

D2I1: Number of training days attended

D213: Number of skilled workers who attended

D214: Enrolment in practical/hands-on training

Training Provider Effectiveness

D311: Enrolment in competent training provider

D312: Enrolment with certified trainer

course
D3I5: Enrolment in digital training

D3I3: Enrolment in courses with regular content

D314: Enrolment in training provider for certification

D316: Enrolment in regular/repetitive training courses
 D317: Enrolment in training provider with complete

D318: Enrolment with established training provider

D113: Number of employees trained

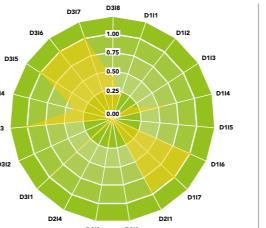
- food, security and growth.
- The Agriculture, Forestry and Fishing sector has consistently grown over the years, Engineering Projects (0.21); contributing to the country's economic 4) Other Specialised Construction
 - Employee training and development this sector is vital to improve productivity,

The top five (5) active subsectors in the Agriculture, Forestry and Fishing industries with the highest training index scores are as

- Support Activities to Agriculture and Post-Harvest Crop Activities (0.35):
- Mixed Farming (0.34); Plant Propagation (0.28);
- i) Growing of Perennial Crops (0.26); and Animal Production (0.25).

Index Score: 0.48 (Adopter)

efficiency and build resilience.



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- Training Provider Effectiveness

 D311: Enrolment in competent training provider
- D3I2: Enrolment with certified trainer
 D3I3: Enrolment in courses with regular content D3I4: Enrolment in training provider for certification
- D315: Enrolment in digital training
- D316: Enrolment in regular/repetitive training courses
 D317: Enrolment in training provider with complete
- training facilities

 D318: Enrolment with established training provider



newly covered sector.



analytic, managerial, technological, problem-solving and technology skills. There is only a small portion of the training levy, probably because they are a





of Agriculture motivates people to enrol in training employee skills and promote a lifelong and skills and take up farming as a career

Challenges of upskilling and reskilling in the Agriculture sectors as limited access to training, cost of training and an ageing workforce.

Conclusion

Ascertaining the state of our current achievement in the global labour market and the areas for improvement is essential for policymakers, investors, industry players, and workers. By acknowledging the present situation, Malaysia can create effective strategies and policies to improve the country's

As a roadmap for formulating and implementing a sustainable workforce strategic plan, the NTI framework is comprehensive and covers various industries and sectors. It offers an all-encompassing evaluation of the training development capacity and dedication of employers in Malaysia. In addition, the Index is an effective means of monitoring progress and comprehending the influence of training development on the skills and productivity of the workforce.

Strong Focus on Lifelong Learning in Malaysia training methods to increase efficiency and

become an 'Experienced' nation in human capital across all sectors. development. The country emphasises providing education and training opportunities for individuals throughout their working lives. The results Learning in Malaysia show that in Malaysia, many organisations have dedicated units for training or training facilities Investing in training and development is critical to

learning or human capital development, development and quality talent in Malaysia. addressing the training challenges faced by SMEs is necessary. SMEs often face financial and The development of the index measures the time constraints in employee training, which has average change to forecast events and provides limited their ability to provide ongoing learning a vital overview for policymakers to develop and development opportunities. Due to limited appropriate policies in the future. The underlying resources, SMEs experience challenges funding methodology of the NTI depicts the overarching training programmes and allowing employees to characteristics and status of training and take time off for training.

By addressing the unique challenges SMEs face, Malaysia can ensure that all businesses have equal opportunities to provide continuous learning and activities in various subsectors. As industries shift development for employees, contributing to the and expand overnight, so do job descriptions and overall growth of the country's economy and roles. According to the Corporate Finance Institute,

Manufacturing and Services Industries

Based on findings of the NTI, digitalisation drives training activities in the Manufacturing this regard, the rise of digital learning has made it and Services industries, although less in other possible to upskill and reskill, regardless of stage industries, such as Agriculture, Mining & Quarrying in life or where one lives. and Construction. As technology and business practices are constantly evolving, organisations in Manufacturing and Services industries need to enhance employees' skills and knowledge to remain competitive. Through training participation, organisations can ensure employees have the latest skills and knowledge necessary to adapt to changes and support organisational

Agriculture, Mining & Quarrying, and Construction industries must fully utilise technology-assisted

accessibility. Therefore, it is essential to promote With an index score of 0.70, Malaysia has the adoption of technological advancements

NTI, The New Measurement for Lifelong

at their premises, indicating a commitment to employees' training and development. sustaining business growth and success (University of Ottawa, 2021). Establishing the NTI will help propel a culture of training and development For Malaysia to become a 'Leader' in lifelong to achieve a high standard of human capital

> development at the national and sectoral levels, which significantly impacts policymaking.

In addition, the NTI sheds light on training learning new things reinforces fundamental soft skills, such as goal setting, self-discipline, Digitalisation Drives Training Activities in the creativity, critical thinking, time management, problem-solving and adaptability. Professionals prioritise lifelong learning to remain relevant with in-demand skills and better job opportunities. In



Download the full report at https://hrdcorp.gov.my/reports/



Building a brighter future through human capital













Overall National Training Index 2022

Subsectors

879,165 Trainees Trained

HRD Corp Registered Employers by Economic Sectors

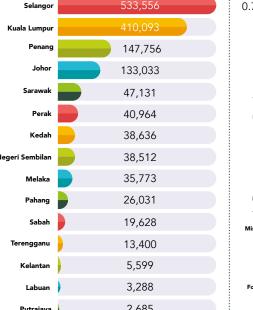
Agriculture, Forestry and Fishing and Construction are newly covered sectors under under the expansion of the PSMB Act 2001, effective







Statistics of Training Places by States Selangor recorded the highest number of training participation in the year 2022.



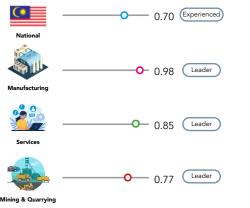
Training Participation in





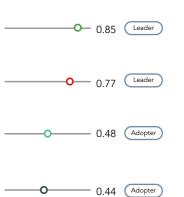
Overall Index Overview

proven that the country has an established training system and a strong focus on lifelong earning and skills development with a score of



National Training Index for the year 2022 has





Executive Summary

The National Training Index (NTI) is an annual assessment comprising a comprehensive analysis of lifelong learning conditions and performances across five (5) primary economic sectors in Malaysia.

The Index provides valuable insights for the Government, investors, and industries to gain an in-depth understanding of the current situation and make informed decisions about workforce competency development strategies.

The NTI covers a wide range of training activities and considers various perspectives for a comprehensive analysis of the state of lifelong learning in Malaysia. In this regard, the NTI examines the readiness of employers to invest in employee training and development, the skills development of workers, and the effectiveness of training providers. The data presented in this report were generated from the exhaustive HRD Corp internal database.

Based on the analysis of index performance for the year 2022, Malaysia indicated an established training system and a strong focus on lifelong learning and skills development with a score of 0.70, which indicates Malaysia is at "Experienced" level. The Index also reflects Malaysia's culture of learning and skills development, with many organisations or industries leveraging opportunities to upskill and enhance the

As technology and business practices are constantly evolving, it is crucial for organisations in Manufacturing and Services industries to regularly update their employees' skills and knowledge to remain competitive.

competencies of their employees.

The adoption of digital training has been embraced within Malaysia's Manufacturing and Services sectors. In contrast, the Mining & Quarrying, Agriculture and Construction sectors rely primarily on traditional training

methods. The results showed that the factors hindering these sectors from adopting digital training are a lack of investment in technology and training resources. The report also addresses challenges in conducting training activities faced by Small and Medium-sized Enterprises (SMEs) and HRD Corp newly registered employers.

Significant challenges include limited financial resources, lack of access to training programmes and limited awareness of available resources.

Therefore, the Government's support is crucial to address these challenges and provide SMEs and newly registered employers with resources and opportunities to invest in employee training and development.

A well-trained and skilled workforce is critical to a competitive and productive economy. To that extent, tracking workforce performance and addressing challenges are essential for the growth and development of Malaysia's economy. Regular tracking of workforce performance enables industries to identify areas of improvement.

Accordingly, collaboration between the Government, industries, and organisations creates a more supportive environment for employee training and development. It can help ensure that the workforce has the skills and knowledge needed to succeed in a rapidly changing global economy.

The NTI **Measurement Methodology**

The NTI is a geometric means of normalised indices for three (3) key dimensions: Firm Preparedness Worker Skills Development and Training Provider Effectiveness at four (4) levels, namely, national, main economic sectors, subsectors and individual employers.

| Preparedness Readiness / ommitment | Seven (7) ind preparedness availability to terms of alloo training, reco support for le |
|------------------------------------|--------------------------------------------------------------------------------------------------------|
|------------------------------------|--------------------------------------------------------------------------------------------------------|

Key Dimension

dicators were identified to assess firm ess, which measures employers' readiness or towards workers' upskilling and reskilling in ocation, the number of workers participating in cognition after training, and facility or training

Worker Skills



Four (4) indicators were identified to assess the skills development dimension, which measures workers' competencies and skills, e.g., the level of certification, duration of the training, types of training skills and the skills transferable to the workplace. ______

Eight (8) indicators were identified to assess training providers' effectiveness, which measures training providers' quality and availability to support the learning ecosystem from the perspectives of course content, digital training platform, issuance of certification, trainers' competency and training facilities.

The evaluation of the NTI scale of 0 to 1 were ranked into four (4) categories, namely: i) Leader, ii) Experienced, iii) Adopter and iv) Beginner.

| 0.76 – 1.00 | Leader | Vigorously active in training and highly prepared for training, high strength in talent development and equipped with a comprehensive training plan and high investment in training. |
|-------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0.51 – 0.75 | Experienced | Active in training and moderately prepared for training by having a better environment and capacity for training, moderate talent development, and practical training plan with sufficient funding. |
| 0.26 – 0.50 | Adopter | Moderately active in training with moderate training preparation, talent development and quality of training. Possess adequate training plans and materials with moderate training allocation. |
| 0.00 – 0.25 | Beginner | Low participation or commitment in training preparation or talent development or low quality of training. Lack of training allocation and basic training plans and materials. |

The NTI Score 2022

The index provides a strategic benchmarking tool for organisations and Governments to develop human capital policy.

Cross-organisation comparison in training performance informs policymakers, help shape human capital development strategies and monitors public and private sector organisations' training performance over time and across industries.

> At the national level. Malaysia is categorised as 'Experienced' with an index score of 0.70 in 2022. The index score indicates that employers in Malaysia have a high capacity for performance in terms of training preparedness, competencies of training providers, commitment to upskilling and reskilling and high adaptation to digital learning.

Training can improve job performance, increase efficiency and output by providing employees with the necessary skills and knowledge to perform their jobs more effectively. Ultimately, a productive and competitive workforce benefits the organisation and the economy as a whole.

Index Score: 0.70 (Experienced

A positive trend in the

indicate that employers

are becoming

in their workforce

towards employee

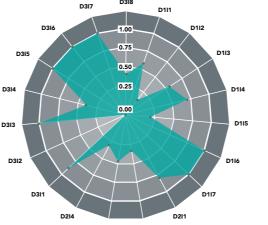
development.

mportance of investing

and are dedicating

more aware of the

employee training ratio



In Malaysia the training

trends across various

ndustries have been

technoloav-driven

approaches. This

earning platforms,

irtual classrooms and

e-learning solutions.

ludes the use of digital

and personalized

shifting towards more

A total of RM20 million

was granted in 2022 to

equip the employers

equipment indicating

a strong emphasis

on investing in

development.

financial assistance

- Firm Preparedness and Training Commitment

 D111: Amount of financial assistance allocated for

- training per worker

 D112: Utilisation rate of HRD Corp levy

 D113: Number of employees trained
- D114: Number of skilled workers trained D115: Enrolment in Recognition of Prior Learning
- D116: Availability of training facilities at own premise D117: Availability of designated training unit

The data in 2022

indicates that there is a

low number of skilled

workers attending

encourage training in these areas.

- **D2I1:** Number of training days attended
- D213: Number of skilled workers who attended
- D214: Enrolment in practical/hands-on training
- Training Provider Effectiveness
- D3I1: Enrolment in competent training provide D312: Enrolment with certified trainer
- D3I3: Enrolment in courses with regular content
- **D314:** Enrolment in training provider for certification course
 D3I5: Enrolment in digital training
- D316: Enrolment in regular/repetitive training course
 D317: Enrolment in training provider with complete
- training facilities

 D318: Enrolment with established training provider

Low utilisation of the HRD Corp lew

indicates room for

improvement in

and development

and the implementation

anaging the training

ulture in organisations

and effectiveness of

programmes.

HRD Corp training

Bridging Skill Gap: n the Manufacturin Sector through Certified Workers



Due to rapid increase production and productivity are essential by enhancing current skills and ensuring the workforce is equipped with in-demand skills to tap into foreign investments in local businesses.

advancements in digitalisation and digital in which employers taken the lead to urge offer modular courses n these emerging and ritical areas through the 9 focus area.

involves practical work nust restructure their nd technical skills to equip workers with the

skills and experience.

Manufacturing heavily

Manufacturing

The Manufacturing sector has contributed

significantly to Malaysia's economy based on

GDP and employment growth. Based on the

Quarterly GDP Statistics published by DOSM.

the Manufacturing sector expanded by 3.9% in Q4 compared to Q3 last year.

These job fields require skilled, creative

and innovative personnel with modern

technological knowledge to improve

products and delivery processes continuously.

Accordingly, investment in lifelong learning

reach their full potential as skilled workers and

and digital training is vital for employees to

for industries to generate more revenue.

Index Score: 0.98 (Leader)

The average levy utilisation among registered employers vas relatively low indicating that

nployers need to

lly optimise the levy

n ensurina a successfu lifelong learning plan is the selection of industry-certified rainers. Certified trainer will help employers, especially SMEs, to upskill employees for a nore skilled workforce,

One of the critical factor

higher productivity and

The following subsectors recorded the highest

- Manufacturing of Electric Motors. Generators, Transformers and Electricity Distribution and Control Apparatus (0.76): 2) Processing and Preserving of Meat
- Manufacture of Basic Chemicals, Fertilisers and Nitrogen Compounds. Plastics and Synthetic Rubber in Primary
- 4) Manufacture of Structural Metal Products, Tanks, Reservoirs and Steam Generators (0.54); and
- 5) Manufacture of Refined Petroleum Products (0.54).

Reference:
Firm Preparedness and Training Commitment

• D111: Amount of financial assistance allocated for

D114: Number of skilled workers trained D115: Enrolment in Recognition of Prior Learning

D117: Availability of designated training unit

D2I1: Number of training days attended

D3I2: Enrolment with certified trainer

certification courses
D214: Enrolment in practical/hands-on training

D3I3: Enrolment in courses with regular content

D314: Enrolment in training provider for certification

course

D3IS: Enrolment in digital training

D3IS: Enrolment in regular/repetitive training courses

D3IT: Enrolment in training provider with complete

training facilities **D318:** Enrolment with established training provider

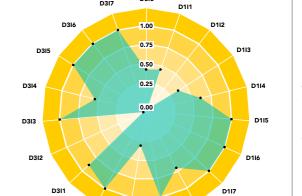
Orker Skills Development

D116: Availability of training facilities at own premise

training per worker

D112: Utilisation rate of HRD Corp levy

D113: Number of employees trained



New training methods,

including computer simulation and VR, allow

employees to train on

equipment without

njuring themselves,

or causing damage to

machinery or equipment

isrupting production

The Services sector accounts for a significant for producing and delivering services, such as proportion of total employment in Malaysia. finance, transport and telecommunications. It is reasonable to expect this sector to invest The shift towards being technology-driven has heavily in employee training and development. transformed the Services sector into a highly capital and technology-intensive industry.

The exact level of investment in training and development by the Services sector may vary The top five (5) active Services subsectors with by industry and company. Generally, industries with high employment levels strongly emphasise workforce development to improve productivity, quality and customer service.

It is essential to note that the traditional view of Services as a labour-intensive industry is changing. The Services sector is becoming increasingly technology-intensive, with ICT

Index Score: 0.85 (Leader)

The sector is

digitalisation and

advanced technology

to enhance business

provide better

services to customers.

operations and

the highest training index score are as follows: Radio Broadcasting (0.70); Monetary Intermediation (0.64);

Wired Telecommunications Activities (0.54); and Water Collection, Treatment and

Hospital Activities (0.63):

Supply (0.54).

Services

- Reference:
 Firm Preparedness and Training Commitment

 D111: Amount of financial assistance allocated for training per worker

 D12: Utilisation rate of HRD Corp levy
 D13: Number of employees trained
 D14: Number of skilled workers trained
 D15: Enrolment in Recognition of Prior Learning

- D116: Availability of training facilities at own premise
 D117: Availability of designated training unit

D213: Number of skilled workers who attended

certification courses **D214:** Enrolment in practical/hands-on training

ining Provider Effectiveness

- D3I1: Enrolment in competent training provider
- D312: Enrolment with certified trainer D3I3: Enrolment in courses with regular content
- D314: Enrolment in training provider for certification
- course

 D315: Enrolment in digital training
 D316: Enrolment in regular/repetitive training courses
 D317: Enrolment in training provider with complete
- training facilities

 D3I8: Enrolment with established training provide



Some initiatives include

engaging with industry

and collaborating with

specific skills gaps with

employers to identify

a needs assessment,





Data indicates tha

Few employers view training às á strategic

tool. Smaller firms may be unaware of the different types of training available. The lack of information

suits employees' needs challenging.

makes determining what type of training

compared to other sectors. Therefore employers in the Services sector nderutilise HRD Corp