

**MADANI**  
TRAINING & CONSULTANCY

# **INDUSTRIAL RADIOGRAPHY LEVEL 1 (SPKM-NDT) (ISO 9712)**

**NDT FOR SAFETY, RELIABILITY QUALITY AND INTEGRITY**



**COURSE MODE: PHYSICAL CLASS (SOP COMPLIANCE)**

**VENUE**

**THEORY: MADANI TRAINING & CONSULTANCY (BANGI, SELANGOR)**

**PRACTICAL: BLOK 59, PUSAT LATIHAN AGENSI NUKLEAR (DENGKIL, SELANGOR)**



ID: 10001201443



CO. ID: 1127989-X

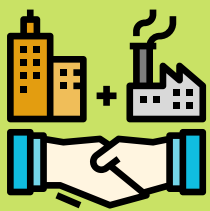
# INTRODUCTION

Industrial Radiography had played its role in keeping the quality of the structure in construction (e.g. beam, crane hook) in check. This approach of quality control has been put into practice for so many years in Malaysia and has made its way into one of the biggest pipeline construction project in Malaysia named Pipeline Gas Utilization Project (PGU).



Seeing the potential of this approach possessed, PETRONAS has set higher safety and quality standard that requires highly competent radiographer to inspect their product, components and system.

Law Enforcement of Act 304 by Atomic Energy Licensing Board (AELB) ONLY allows personnel certified as RT Level 1 and above to initiate radiographic work. Commonly, RT Technician is involved with the used of Iridium-192 to inspect welding quality and provide quality report of the welding structure inspected.



To fulfill this need, MADANI Training & Consultancy in association with SIRIM Training Services or Pusat Latihan Agensi Nuklear work together in organizing the National Industrial Radiography Level 1 Course.

This course offers professional fundamental knowledge in radiographic testing as well as scope of job in accordance to ISO 9712. Candidates will be exposed to the examination and certification system by Jabatan Pembangunan Kemahiran as an Authorized Certification Body under Accreditation ISO 17024. Apart from technical knowledge, candidates will be exposed to radiation safety aspect of the work. The best radiation safety practice will be honed and ALARA principle will be introduced.



# OBJECTIVES



To equip participants with the adequate theoretical and practical knowledge for the RT Examination as well as for the execution of their job as supervisors, lecturer, radiographer and etc.

## WHO SHOULD ATTEND

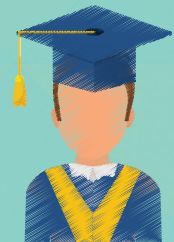
Those who have interest in venturing into oil and gas industry

Those from technical/vocational background.

NDT Lecturers

NDT Technicians and Supervisors

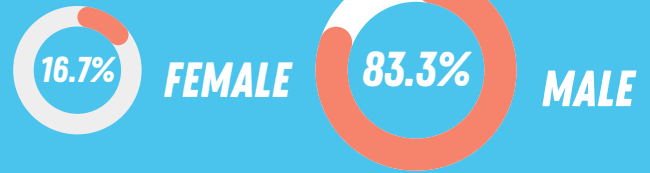
Fresh Graduates



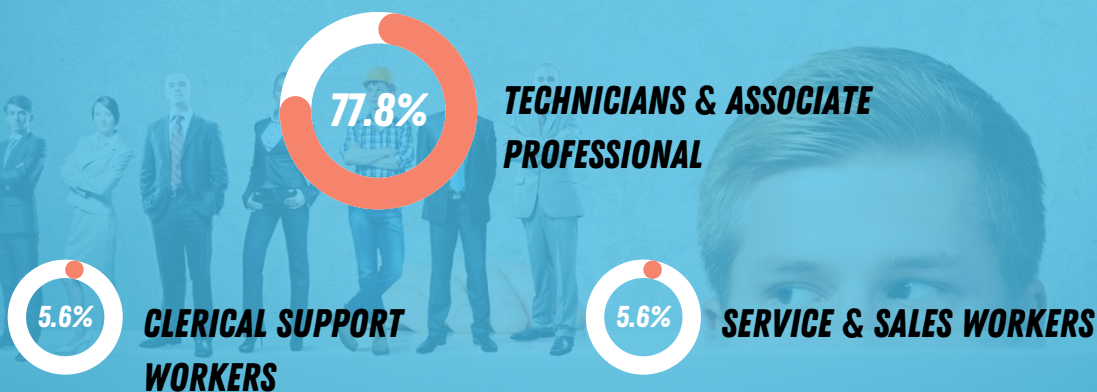
# LATEST EMPLOYABILITY STATISTICS (2021)

(MADANI CANDIDATES)

# 20 CANDIDATES



## SCOPE OF PROFESSION



## SALARY RANGE

**RM 2,800** HIGHEST SALARY OFFERED (NOT INCLUDED ALLOWANCE)

**RM 2,088** AVERAGE SALARY OFFERED ((NOT INCLUDED ALLOWANCE)



# FEES STRUCTURE/ TRAINING

**SINGLE: RM 4799/PAX (EXAM INCLUDED)**

**GROUP: RM 4599/PAX (EXAM INCLUDED)**

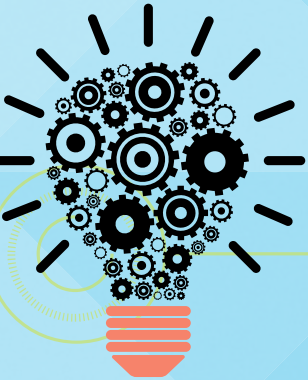
**SINGLE (HRDC GRANT): RM4992/PAX (EXAM INCLUDED)**

**GROUP (HRDC GRANT): RM 4788/PAX (EXAM INCLUDED)**



# HRD CORP GRANT APPLICATION

**\*FOR COMPANY REGISTERED UNDER HRD CORP ONLY)**



Company that is registered under HRD Corp is eligible to apply for HRD Corp Grant. Previously known as SBL-Khas Grant, this grant provides a range of benefits to Malaysian companies and their employees, including access to upskilling and reskilling programs, professional training and development, and financial support. It also encourages lifelong learning and helps to address skills gaps in the workforce, improving competitiveness and productivity.

# HRDC GRANT DOC CHECKLIST

**\*FOR COMPANY REGISTERED UNDER HRD CORP ONLY)**

**TO APPLY, YOU NEED:**



**Invoice/Quotation**



**Brochure**



**Trainer's Profile**



**JD14 Form  
(After-event)**



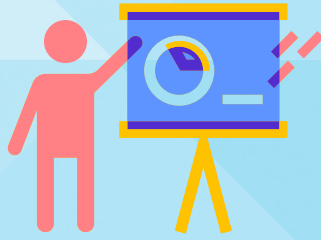
**Attendance Record  
(After-event)**



**Other documents  
(if requested by HRD Corp)**

# COURSE OUTLINES

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- Introduction to 5 common NDT methods (RT,UT,MT,PT,ET)
- Material, Processes and Defects
- Physical Principles of Radiation
- Radiation Protection for Industrial Radiography
- Radiation Equipment and Accessories
- Control Of Exposure
- Safe handling of Radioactive Material
- Radiography Film and Processing
- Radiography Quality
- Radiography Exposure Technique
- Radiography Exposure Calculation
- Viewing Radiographic Image
- Codes, Standards and Specifications
- Other Radiography Technique
- Radiography Reporting

## METHODOLOGY

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The training session will incorporate **slides** and **hands-on activities**, including a **radiation safety demonstration**. The training will be delivered in a mix of **English and Malay languages**, providing comprehensive learning opportunities.

Candidates are required to handle X-ray and Gamma Projector in accordance with safety instruction written.

# EXAMINATION STRUCTURE



## ***THEORY***

General Paper: 50 Questions (Including 10 Safety Question), 1 Hour 15 Min

Specific Paper: 30 Questions, 1 Hour



## ***PRACTICAL***

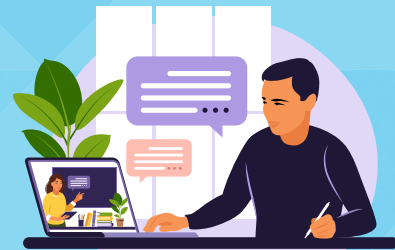
Film Viewing: 12 Pieces

- 5 pieces (Gamma Film) (Exam Sample)
- 5 pieces (X-ray) (Exam Sample)
- 2 pieces (Your Own Film)

Radiography by following Instruction Writing

- End Product Quality Evaluation

# CONTACT US



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