

CERTIFICATE

- One year
- Start date varies
- Port aux Basques Campus

COURSES

CODE	TITLE	Hrs
Block 1	Entry Level	
DR1120	Blueprint Reading for Welders	75
DR1700	Basic Drawing & Sketching	75
ND1101	Liquid Penetrant Inspection I	30
ND1102	Liquid Penetrant Inspection II	45
ND1120	NDT Centre Fundamentals	90
ND1201	Magnetic Particle Inspection I	45
ND1202	Magnetic Particle Inspection II	45
ND1301	Industrial Ultrasonics I	45
ND1302	Industrial Ultrasonics II	90
ND1401	Industrial Radiography I	60
ND1402	Industrial Radiography II	75
WD1120	SMAW Fundamentals	90
WD1510	Metallurgy Fundamentals	45
WD2300	Welding Failure Analysis	60

Related Courses

		Hrs
CM2150	Workplace Communications	45
MC1050	Introduction to Computers	30
MR1220	Customer Service	30
SD1700	Workplace Skills	30
SD1710	Job Search Techniques	15
SD1720	Entrepreneurial Awareness	15
SP2330	Quality Assurance/Quality Control	30

INDUSTRIAL TRADES

Non-Destructive Testing Technician

This program is designed to prepare trainees for potential employment opportunities in the field of Non-Destructive Testing of materials. The program structure provides the necessary training in a variety of methods namely: Liquid Penetrant Inspection, Magnetic Particle Inspection, Ultrasonic Inspection, Industrial Radiography Inspection, other inspection methods, and Quality Assurance, Control Documentation and Reporting systems for various industrial sectors.

Note: This program may not be suitable for applicants who do not have normal colour perception.

OBJECTIVES

1. To provide sufficient basic knowledge of the Liquid Penetrant Inspection Method to enable the graduate to perform Liquid Penetrant Inspection.
2. To provide sufficient basic knowledge of the Magnetic Particle Inspection Method to enable the graduate to perform Magnetic Particle Inspection.
3. To provide sufficient basic knowledge of the Ultrasonic Inspection Method to enable the graduate to carry out Ultrasonic Inspection.
4. To provide sufficient basic knowledge of Industrial Radiography to enable the graduate to carry out Radiographic Inspection.
5. To provide basic knowledge of Quality Assurance, Control Documentation and Reporting Systems for various industrial sectors.
6. To help trainees develop attitudes conducive to the successful application of skills on the job.
7. To develop an awareness and concern for good safety practices in the work place.
8. To provide related academic skills and knowledge in Mathematics, Communications and Science.

ENTRANCE REQUIREMENTS

Comprehensive Arts and Science Certificate (College Transition program),

OR

High School Graduation,

OR

Grade XI Certificate (Public Examinations or equivalent),

OR

Adult Basic Education (Level III) Graduation,

OR

Adult Basic Education (Level III) Graduation with General College Profile (or Business Related College Profile or Degree and Technical Profile). It is strongly recommended that courses include the following:

1. Mathematics MA3107A, MA3107B, MA3107C
2. Science 3101, 3102, 3103

OR

Persons 19 years of age or older who do not meet the educational prerequisite may be considered on an individual basis under the Mature Student Clause.

EQUIPMENT REQUIRED FOR TRAINING

Safety glasses, safety boots, and laboratory coats.

SUBJECT DESCRIPTIONS

- Liquid Penetrant Inspection
- Magnetic Particle Inspection
- Ultrasonic Inspection
- Radiography
- Metallurgy
- Metallurgy and Welding Methods
- Quality Assurance, Quality Control and Documentation
- Blueprint Reading.

LABORATORY

There will be practical applications in all disciplines to assist the trainees in developing self-confidence to carry out Non-Destructive Testing.

