APPRENTICESHIP ROUTE TOWARD CERTIFICATION
CRANE AND HOISTING EQUIPMENT OPERATOR - MOBILE CRANE OPERATOR

APPLICATION

CONTRACT AND RECORD BOOK

ENCENTRANCE EXAMINATION

GRADE 10

PASS

FAIL

EDUCATIONAL IMPROVEMENT COURSE

FIRST PERIOD
1500 HOURS OF WORK EXPERIENCE PLUS ATTENDANCE AND PASSING OF TECHNICAL TRAINING

SECOND PERIOD
1500 HOURS OF WORK EXPERIENCE

THIRD PERIOD
1500 HOURS OF WORK EXPERIENCE PLUS ATTENDANCE AND PASSING OF TECHNICAL TRAINING

JOURNEYMAN CERTIFICATE

INTERPROVINCIAL EXAMINATION FOR "RED SEAL"
Crane and Hoisting Equipment Operator
Mobile Crane Operator Training Profile

First Period
(6 Weeks 30 Hours Per Week - Total of 180 Hours)

SECTION ONE
INTRODUCTION TO MOBILE CRANES
13.5 Hours
Introduction to Mobile Cranes

SECTION TWO
TRADE CALCULATIONS
27 Hours
Basic Mathematics and Geometry

SECTION THREE
LOAD CHART READING
27 Hours
Load Chart Reading

SECTION FOUR
INTRODUCTION TO OPERATING PROCEDURES
27 Hours
Introduction to Operating Procedures

SECTION FIVE
RIGGING AND EQUIPMENT ACCESSORIES
27 Hours
Rigging and Equipment Accessories

SECTION SIX
INSPECTION, TESTING AND MAINTENANCE
9 Hours
Inspection, Testing and Maintenance

SECTION SEVEN
HYDRAULICS & APPLICATIONS TO MACHINE CONTROL
13.5 Hours
Hydraulics & Applications To Machine Control

SECTION EIGHT
POWER TRAINS, CHASSIS AND SUSPENSIONS
9 Hours
Power Trains, Chassis and Suspensions

SECTION NINE
DIESEL ENGINES AND SYSTEMS
9 Hours
Diesel Engines and Systems
(basic understanding)

SECTION TEN
RULES AND REGULATIONS RELATING TO THE TRADE
18 Hours
Rules and Regulations Relating to the Trade
Third Period
(6 Weeks 30 Hours Per Week - Total of 180 Hours)

SECTION ONE
REVIEW OF MOBILE CRANES AND COMPONENTS
9 Hours
A Mobile Cranes and Components

SECTION TWO
PRINCIPLES OF CRANE OPERATION
13.5 Hours
A Principles of Crane Operation

SECTION THREE
LOADS CHARTS
27 Hours
A Loads Chart

SECTION FOUR
OPERATING PROCEDURES
27 Hours
A Operating Procedures

SECTION FIVE
INTRODUCTION TO PRE-LIFT PLANNING
27 Hours
A Pre-Lift Planning and Tasks

SECTION SIX
ADVANCED RIGGING PROCEDURES
27 Hours
A Advanced Rigging

SECTION SEVEN
INTRODUCTION TO NEW CRANES
13.5 Hours
A New Technology

SECTION EIGHT
CONVENTIONAL CRANE DRAW-WORKS
13.5 Hours
A Conventional Drive Principles and Operation

SECTION NINE
SPECIALISED LIFT ATTACHMENTS
9 Hours
A Attachments and Accessories

SECTION TEN
MULTI-CRANE LIFTS
13.5 Hours
A Multi-crane Lifts

The hours stated are for guidance and should be adhered to as closely as possible. However, adjustments must be made for rate of apprentice learning, statutory holidays, registration and examinations for the training establishment and Apprenticeship and Industry Training.