

Insulator (Heat & Frost) - Upgrading A Guide to Course Content

Insulators (Heat & Frost) maintain and apply thermal insulation to commercial and industrial structures and equipment.

Training Requirements: All candidates applying for upgrading must be eligible to challenge the Interprovincial journeyperson examination.

The information contained in this pamphlet serves as a guide for employers and apprentices. The pamphlet briefly summarizes the training provided in the upgrading program. This program is designed to prepare individuals to challenge the Insulator Interprovincial journeyperson examination.

The content of the technical training components is subject to change without notice.



Materials and Accessories

- insulation materials
- cements
- adhesives
- reinforcing fabrics
- piping, duct and equipment
- mastics
- mitre tubes and mitre box

Asbestos Abatement (Commercial Course)

- awareness
- asbestos abatement
- regulations
- removal equipment
- worksite planning
- worksite procedures
- spraying
- clean-up and inspection

Trade Mathematics

- whole numbers
- fractions
- decimals
- conversions
- percentages
- perimeters, areas and volumes

Print Reading

- introduction to print reading: lines, rulers, orthographic projections, major/monor divisions of drawings, architectural symbols, interpreting basic prints

Materials and Accessories (Commercial)

- canvas jacketing
- metal
- tees and valves
- lags
- weather proofing
- coolers and freezers
- expansion joints

Hand Tools and Power Equipment

- insulator hand tool recognition and application
- competent use
- maintenance and adjustment
- stud welder set up and operations procedures
- safe operation, application and regular maintenance of power equipment

Trade Mathematics

- board feed and band spacing
- surface area of solids
- insulation quantities
- bevels on lags
- canvas quantities

Materials and Accessories (Industrial)

- selection of finishing materials
- extruded foam plastic

Pattern Development

- geometric construction – draw basic geometric shapes
- define terms/use each method to draw geometric shapes
- patterns – develop, cut and fabricate patterns
- installation of fabricated jacketings
- tank heads
- removable valve covers

Estimating Techniques

- material takeoff and estimating
- extend insulation requirements to actual cost
- estimate commercial and industrial material requirements

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