

# OCCUPATIONAL TOOLS AND EQUIPMENT LIST

## **Insulator (Heat and Frost)**



Government of Newfoundland Labrador  
Department of Education and Early Childhood Development  
Apprenticeship and Trades Certification Division

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## **Preface**

This document is intended as a companion to the March 2019 Plan of Training for the Insulator (Heat and Frost) occupation. It identifies the necessary tools and equipment required by apprentices and training institutions for the completion of apprenticeships.

## **Acknowledgements**

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We offer you a sincere thank you.

## **Contact Information**

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## **Note:**

The numbers suggested in the following Tools and Equipment List represent the required minimum. Please verify this list with your selected training institution.

**Tools and Equipment List  
Insulator (Heat and Frost)**

| <b>SECTION A: TOOLS AND EQUIPMENT REQUIRED BY STUDENT</b> |                                      |   |                 |
|---|--------------------------------------|---|-----------------|
| <b>Item</b>   | <b>Units for Individual Students</b> | <b>Required for Entry (E)<br/>Advanced (A)<br/>Both (B)</b> | <b>Comments</b> |
| <b>Hand Tools</b>   |                                      |   |                 |
| Dividers (10" or 12")                                     | 1                                    | B   |                 |
| Knife (Long and Short)                                    | 1 of each                            | B   |                 |
| Pliers – 8" End Nipper                                    | 1                                    | B   |                 |
| Pruning Saw   | 1                                    | B   |                 |
| Punch Set   | 1                                    | A   |                 |
| Scale Ruler   | 1                                    | B   |                 |
| Scissors  | 1                                    | B   |                 |
| Scratch Awl   | 1                                    | B   |                 |
| Screwdriver, #2 Robertson Short and Long                  | 1 of each                            | B   |                 |
| Shears, Aviation, M1 & M2                                 | 1 of each                            | B   |                 |
| Tape Measure, 25' & 50'                                   | 1 of each                            | B   |                 |
| Trowels (Float and Pointer)                               | 1 of each                            | A   |                 |
| <b>Personal Protective Equipment</b>                      |                                      |   |                 |
| Gloves  | 1 pair                               | B   |                 |
| Hard Hat  | 1                                    | B   |                 |
| Safety Boots  | 1 pair                               | B   |                 |
| Safety Glasses  | 1 pair                               | B   |                 |

Note: If identifying sets, please include specific information.

**SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION**

| Item                         | Units per<br>15 Students | Maximum<br>Students<br>per Unit | Required for<br>Entry (E)<br>Advanced (A)<br>Both (B) | Comments    |
|------------------------------|--------------------------|---------------------------------|---|-------------|
| <b>Hand Tools</b>            |                          |                                 |   |             |
| 8" End Nipper                | 3                        | 5                               | B   |             |
| Band Tightener (pistol grip) | 4                        | 4                               | B   |             |
| Banding Tools (Rachet)       | 2                        | 8                               | B   |             |
| Bull Snips (Heavy and Light) | 2 each                   | 8                               | B   |             |
| Calculators                  | 2                        | 8                               | B   |             |
| Caulking Gun                 | 5                        | 3                               | B   |             |
| Chisel                       | 15                       | 1                               | B   |             |
| Circumference Tape           | 2                        | 8                               | B   |             |
| Combination Square           | 8                        | 2                               | B   |             |
| Crimper                      | 4                        | 15                              | B   |             |
| Dividers (10" or 12")        | 3                        | 5                               | B   |             |
| Flare Staple Gun             | 2                        | 8                               | B   |             |
| Foam Gun                     | 1                        | 15                              | B   |             |
| Hammer Chipping              | 8                        | 2                               | B   |             |
| Hammer Cross Peen            | 8                        | 2                               | B   |             |
| Hog Ringer                   | 8                        | 2                               | B   |             |
| Knife (Long and Short)       | 3 each                   | 5                               | B   |             |
| Lacing Hook/Needle           | 1                        | 15                              | B   |             |
| Level (2 and 4 ft.)          | 1                        | 15                              | B   | One of each |

**SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION**

| Item   | Units per<br>15 Students | Maximum<br>Students<br>per Unit | Required for<br>Entry (E)<br>Advanced (A)<br>Both (B) | Comments |
|--|--------------------------|---------------------------------|---|----------|
| Miter Chart                                  | 6                        | 3                               | B   |          |
| Nylon Rope (3/4 in.)                         | 1 Roll                   | 15                              | E   |          |
| Pruning Saw                                  | 3                        | 5                               | B   |          |
| Punch, Set                                   | 3                        | 5                               | A   |          |
| Rivet Gun                                    | 8                        | 2                               | B   |          |
| Safety Shield                                | 6                        | 3                               | B   |          |
| Scale Ruler                                  | 3                        | 5                               | B   |          |
| Scissors                                     | 3                        | 5                               | B   |          |
| Scraping Tools                               | 2 sets                   | 8                               | B   |          |
| Scratch Awl                                  | 3                        | 5                               | B   |          |
| Screwdriver - #2 Robertson<br>Short and Long | 3 each                   | 5                               | B   |          |
| Shears Offset M6                             | 4                        | 4                               | B   |          |
| Shears (Aviation Shears M1<br>and M2)        | 3 each                   | 5                               | B   |          |
| Shovel                                       | 2                        | 8                               | B   |          |
| Springs and Bands                            | 1 box $\frac{3}{4}$ "    |                                 | B   |          |
| Staple Gun (T50)                             | 8                        | 2                               | B   |          |
| Tape Measure 25' & 50'                       | 3 of each                | 5                               | B   |          |
| Thickness Gauge                              | 8                        | 2                               | B   |          |
| Tip Cleaner (Spray<br>Equipment)             | 2                        | 8                               | B   |          |

**SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION**

| Item                        | Units per<br>15 Students | Maximum<br>Students<br>per Unit | Required for<br>Entry (E)<br>Advanced (A)<br>Both (B) | Comments |
|-----------------------------|--------------------------|---------------------------------|---|----------|
| Trammel Points              | 2                        | 8                               | B   |          |
| Trowels (Float and Pointer) | 3 of each                | 5                               | A   |          |
| T-Square 4 ft.              | 2                        | 8                               | B   |          |
| Water Hoses                 | 1                        | 15                              | B   |          |
| Wire Brush                  | 8                        | 2                               | B   |          |

**SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION**

| Item                                  | Units per<br>15 Students | Maximum<br>Students<br>per Unit | Required<br>for<br>Entry (E)<br>Advanced<br>(A)<br>Both (B) | Comments |
|---------------------------------------|--------------------------|---------------------------------|---|----------|
| <b>Power Tools</b>                    |                          |                                 |   |          |
| Drills Bits                           | 2 sets                   | 15                              | B   |          |
| Electric Drill 3/8"                   | 4                        | 4                               | B   |          |
| Electric Shears                       | 1                        | 15                              | B   |          |
| Grinders                              | 4                        | 4                               | B   |          |
| Pin Gun                               | 1                        | 15                              | B   |          |
| Pneumatic Tools (Rivet Gun)           | 1                        | 15                              | B   |          |
| <b>Shop Equipment</b>                 |                          |                                 |   |          |
| Bar Folder                            | 1                        | 15                              | B   |          |
| Beader/Crimper/Combination<br>Machine | 2                        | 15                              | B   |          |
| Electric Metal Shears (Hand<br>Held)  | 1                        | 15                              | B   |          |
| Easy Edger                            | 1                        | 15                              | B   |          |
| Foot Operated Shear                   | 1                        | 15                              | B   |          |
| HEPA Vacuum                           | 1                        | 15                              | B   |          |
| Ladders (6ft, 10 ft)                  | 1 of each                | 15                              |   |          |
| Lock Former                           | 1                        | 15                              | B   |          |
| Metal Brake (4 ft)                    | 1                        | 15                              | B   |          |
| Mixers                                | 1                        | 15                              | B   |          |
| Pump Sprayer                          | 2                        | 8                               | B   |          |
| Roller                                | 1                        | 15                              | B   |          |
| Scaffolding                           | 3 sections               | 3                               | B   |          |

|                                      |                                |    |   |  |
|--------------------------------------|--------------------------------|----|---|--|
| Sewing Machine                       | 1                              | 15 | B |  |
| Shower (Portable)                    | 1                              | 15 | B |  |
| Stud Welder                          | 1                              | 15 | B |  |
| <b>Personal Protective Equipment</b> |                                |    |   |  |
| Dust Masks                           | 15                             | 1  | B | Disposables supplied by school                 |
| Fire Extinguisher                    | As required by OHS regulations | B  |   |  |
| Eyewash Station                      | As required by OHS regulations | B  |   |  |
| First Aid Kit                        | As required by OHS regulations | B  |   |  |
| Safety Glasses                       | 3                              | 5  | B | Spare units to complement student requirements |

**Note:** If identifying sets, please include specific information.

This tool and equipment list was developed using industry standards and the 2018 Red Seal Occupational Standard for the Insulator (Heat and Frost) occupation.