

*The tools and equipment (T&E) on this list represent those that have been identified in the Red Seal Occupational Standard (RSOS) subtasks matched to Atlantic Apprenticeship Curriculum Standard (AACS) units which contain practical objectives. A final list, including quantities, will be developed with the assistance of a Provincial Trade Advisory Committee (PTAC) when a committee is formed.*

*Users of this list are cautioned that the T&E currently shown on this list may not be included on a final list, and additional items may be included which are not currently on this list.*

*In each level, only units with practical are shown, along with their practical objective(s).*

## LEVEL 1

### **BLM-115 Work Platforms and Access Equipment**

- Perform work platform set up

#### Tools identified in RSOS

Suspended scaffolding, needle beams, modular platforms, tank builders scaffolding

### **BLM-145 Hoisting, Lifting and Rigging I**

- Tie knots
- Splice ropes
- Perform reeving
- Perform hand signals

#### Tools identified in RSOS

Chain falls, come-alongs, turn buckles, tuggers, jacks, blocks, Tirfors, hooks and shackles, wire rope clips, eyebolts, chains, additional industry attachments

### **BLM-155 Layout and Template Development I**

- Produce a template using parallel line development
- Layout bolt circles, flanges and ellipses

#### Tools identified in RSOS

Measuring tools, straight edges, levels, marking tools, compass, dividers

### **BLM-160 Fabrication Fundamentals**

- Construct basic geometric shapes
- Perform bolting and torqueing sequence

#### Tools identified in RSOS

Squares, levels, clamps, wrenches, welding machines, torque wrenches, impact wrenches, pneumatic torque guns, hydraulic torque wrenches, tensioning and torqueing equipment, hammer wrenches

### **BLM-170 Job Task Planning**

- Perform a field level risk assessment (FLRA)

#### No specific tools identified in RSOS

## LEVEL 2

### BLM-200 Shop Equipment

- Use shop equipment

#### Tools identified in RSOS

Burning tables, radial drill presses, brake presses, shears, power rolls, ironworkers, positioning equipment, pedestal grinders, bandsaw

### BLM-210 Basic Cutting and Welding

- Perform a basic joint weld

#### Tools identified in RSOS

Welding machines, cables, purge assemblies, ground clamps, and other associated accessories and attachments – dedicated or combination machines able to perform one or more of these processes; SMAW, GMAW, GTAW and/ or FCAW

### BLM-215 Hoisting, Lifting and Rigging II

- Perform a basic lift using a block and tackle

#### Tools identified in RSOS

Chain falls, come-alongs, turn buckles, tuggers, jacks, blocks, Tirfors, hooks and shackles, wire rope clips, eyebolts, chains, additional industry attachments

### BLM-235 Tube Expansion

- Remove, install and expand a tube

#### Tools identified in RSOS

Rolling guns, mandrels, rolls

### BLM-245 Maintenance and Repair

- Perform a hydro test

#### Tools identified in RSOS

Test blinds, pumps, gauges, vent lines, trees

## LEVEL 3

### BLM-305 Advanced Welding

- Perform a v-groove weld

#### Tools identified in RSOS

Welding machines, cables, purge assemblies, ground clamps, and other associated accessories and attachments – dedicated or combination machines able to perform one or more of these processes; SMAW, GMAW, GTAW and/or FCAW

### BLM-315 Testing and Inspection

- Perform a guided bend test

### BLM-320 Layout and Template Development III

- Layout a tangential nozzle

#### Tools identified in RSOS

Measuring tools, straight edges, levels, marking tools, compass, dividers

### BLM-325 Component Fabrication II

- Install a tangential nozzle

#### Tools identified in RSOS

Transits, water levels, plumb bobs, dogs, lugs, shims, key plates, strongbacks, key channels, wedges, u-bars, levels, hammers, rigging, pry bars, torque wrenches, impact wrenches, pneumatic torque guns, hydraulic torque wrenches, tensioning and torqueing equipment, hammer wrenches

### BLM-335 Condensers and Exchangers

- Perform tube rolling

#### Tools identified in RSOS

Rolling guns, mandrels, rolls