

IRONWORKER

First-year Apprentice Learning Plan

**Please indicate in the appropriate course column the skills to be focused on in this 125-hour course.
Feel free to add skills specific to your work site.**

Trade Skills and Tasks	RAP 15 125 hrs	RAP 25A 250 hrs	RAP 25B 375 hrs	RAP 25C 500 hrs	RAP 35A 625 hrs	RAP 35B 750 hrs	RAP 35C 875 hrs	RAP 35D 1000 hrs
	RAP 4188	RAP 5188	RAP 5189	RAP 5190	RAP 6188	RAP 6189	RAP 6190	RAP 6191
Demonstrates basic calculation and measurement specific to trade (metric/imperial)								
Practises safety and maintains a safe work environment								
Plans job in accordance with drawings, work site requirements and specifications								
Coordinates delivery and installation of materials and equipment as job progresses								
Rigging and Machinery Moving – prepares wire and fibre ropes and tackle, rigs and moves loads								
Erection of Hoisting and Conveyance Equipment – assembles, erects, jumps and dismantles tower cranes, various derrick types, material and personal hoists								
Installs support structures, framework and related structural and mechanical equipment for conveying systems and material handling systems								
Erects structural steel framework for buildings, bridges and towers								
Erects metal storage tanks, bins and hoppers								
Assembles and erects pre-engineered buildings, bridges, silos and similar structures								
Assembles and installs curtain walls, window walls, doorways, store fronts, revolving doors, man traps, in and out of buildings								
Installs ornamental and miscellaneous ironwork and non-ferrous components, such as stairways, railings, panels, catwalks, fences, sound barriers and vehicle guardrails								
Erects structural and architectural precast concrete components for buildings, bridges, towers and other structures								
Inspects or tests structures and equipment for deterioration, defects and non-compliance								
Dismantles building framework, bridges, tanks, silos or other structures made of metal, precast concrete or laminated timbers								
Positions and secures steel bar or wire mesh reinforcing in forms prior to the pouring of concrete for grade beams, footings, walls, floors, columns, caissons and other components								
Post-tensions tendons (steel cables or rods) in cast-in-place or precast concrete for reinforcement								
Erects and installs robotic equipment for material handling and automated mechanical systems								
Erects temporary frame or tube scaffolds, falsework, shoring, suspends scaffolds from structures								
Erects structural wood material for buildings (such as mine product storage), churches, schools, pedestrian bridges and walkways								

Note: These skills and tasks are taken directly from the *Apprenticeship and Industry Training Record Book* (Blue Book) as a general guideline of the training required for a first-year RAP student.

Employer's Signature

Student's Signature

Off-campus Coordinator's Signature