



## CALCULATORS PROVIDED FOR ITA CERTIFICATION EXAMS

Calculators will be provided to exam candidates writing ITA Certification (Interprovincial “Red Seal” and Certificate of Qualification) exams based on the trade. The Industry Training Authority consulted with training providers to ensure that the functionality of ITA provided calculators will be suitable for the trade that they will be provided for.

Please see the following table for the Calculator Model that will be provided to you for your certification trade examination session. If you do not see your trade in the table below, please contact ITA Customer Service.

### Sharp EL-520W, EL-520X and EL-531X

Agricultural Equipment Technician "Red Seal"	Electrician, Construction "Red Seal"	Sawfiler – Benchperson Endorsement	Plumber "Red Seal"
Aircraft Structural Technician	Electrician, Industrial "Red Seal"	Marine Mechanical Technician	Power Line Technician "Red Seal"
Appliance Service Technician "Red Seal"	Electric Motor Systems Technician (Winder Electrician) "Red Seal"	Marine Service Technician	Professional Cook 1
Asphalt Paving/Laydown	Embalmer	Mobile Crane Operator - Hydraulic 80 tonnes and under	Professional Cook 2
Automotive Painter (Automotive Refinishing Technician) "Red Seal"	Embalmer & Funeral Director	Mobile Crane Operator - Hydraulic Unlimited tonnage	Cook (Professional Cook 3) "Red Seal"
Automotive Refinishing Prep Technician	Floor Covering Installer "Red Seal"	Mobile Crane Operator - Lattice Boom Hydraulic Crane "Red Seal"	Recreation Vehicle Service Technician "Red Seal"
Automotive Service Technician "Red Seal"	Funeral Director	Mobile Crane Operator - Lattice Boom Friction Crane "Red Seal"	Refrigeration and Air Conditioning Mechanic "Red Seal"
Automotive Service Technician 1	Hairstylist (Cosmetologist)	Motorcycle & Power Equipment Technician	Residential Building Maintenance Worker
Automotive Service Technician 2	Heating Technician	Motor Vehicle Body Repairer (Metal & Paint) (Auto Body and Collision Technician) "Red Seal"	Residential Steep Roofer
Automotive Service Technician 3	Heavy Duty Equipment Technician (Mechanic) "Red Seal"	Oil Burner Mechanic (Residential) "Red Seal"	Rig Technician "Red Seal"
Baker "Red Seal"	Heavy Equipment Operator "Red Seal" Pending	Painter and Decorator "Red Seal"	Security Alarm Installer
Boom Truck Operator - Folding Boom Unlimited tonnage	Horticulturist, Landscape "Red Seal"	Parts and Warehousing Person 1	Sprinkler System Installer "Red Seal"
Boom Truck Operator - Stiff Boom Unlimited tonnage	Inboard/Outboard Mechanic	Partsperson 2	Steamfitter / Pipefitter "Red Seal"
Bricklayer (Mason) "Red Seal"	Sawfiler	Partsperson "Red Seal"	Tilesetter "Red Seal"



**Sharp EL-520W, EL-520X and EL-531X (Cont.)**

Arborist Technician	Diesel Engine Mechanic	Locksmith	Tower Crane Operator "Red Seal"
Broadband Network Technician	Drywall Finisher	Marine Electrician (Endorsement)	Transport Trailer Technician (Commercial Trailer Mechanic) "Red Seal"
Climbing Arborist	Geoexchange Driller	Petroleum Equipment Installer	Truck and Transport Mechanic (Commercial Transport Vehicle Mechanic) "Red Seal"
Carpenter "Red Seal"	Geotechnical / Environmental Driller	Petroleum Equipment Service Technician	Utility Arborist
Construction Craft Worker "Red Seal"	Instrumentation and Control Technician (Industrial Instrument Mechanic) "Red Seal"	Railway Car Technician	Water Well Driller
Concrete Finisher "Red Seal"	Industrial Mechanic (Millwright) "Red Seal"	Tidal Angling Guide	Welder "Red Seal"
Dairy Production Technician	Insulator (Heat and Frost) "Red Seal"	Tool and Die Maker "Red Seal"	Well Pump Installer

**Texas Instrument TI-30Xa**

Architectural Sheet Metal Worker	Cabinet Maker (Joiner) "Red Seal"	Machinist "Red Seal"	Piledriver and Bridgeworker
Automotive Glass Technician	Glazier "Red Seal"	Meatcutter	
Boilermaker (Construction Boilermaker) "Red Seal"	Ironworker Generalist (Ironworker) "Red Seal"	Metal Fabricator (Fitter)	
Sheet Metal Worker "Red Seal"	Ironworker - Reinforcing "Red Seal"	Piledriver and Bridgeworker	

**Sharp EL-520W, EL-520X, EL-531X**

Candidates will be provided with either the Sharp EL-520W, EL-520X or EL-531X calculator. The functionalities of the calculators are the **same**. Only cosmetic changes were made to the SHARP EL-520X and EL-531X.

Note: If the calculator is not working as you expect inform the invigilator and use a pen or pencil to press the RESET button on the back.



**Texas Instrument TI-30Xa**



## CALCULATORS FOR USE IN APPRENTICESHIP AND INDUSTRY TRAINING EXAMS

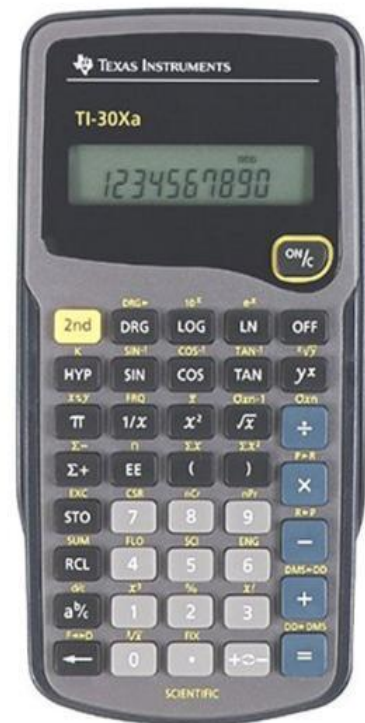
### IMPORTANT

Due to increasing concerns about the security of exams, the Industry Training Authority now supplies all exam candidates with a calculator for a certification (IPSE and CofQ) exam. Calculators will be distributed based on the trade of the exam.

**Personal calculators are not permitted for Certification (IPSE and CofQ) exams. No exceptions will be made.**

The Texas Instrument TI-30Xa calculator is a scientific model as shown here.

The TI-30Xa provides all the basic and scientific functions required for trade exams. Instructions on the use of the various functions are provided below.

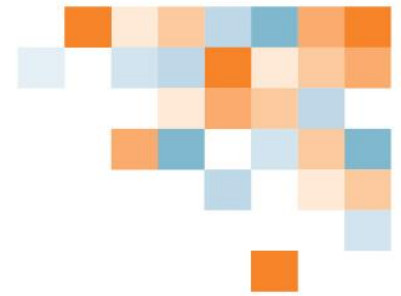


### Calculator Use Instructions

Note: To switch from the number or symbol on a black button to the yellow function above the button, press the **2nd** key.

Basic example,

<b>18 multiplied by 3.6</b>	1	8	x	3	.	6	%
<b>Percent e.g., 7% of 96</b>	9	6	x	7	2nd	2	
<b>Fractions e.g., 2/3 + 1/4</b>	2	a <sup>b</sup> /c	3	+	1	a <sup>b</sup> /c	4
<b>Trigonometry e.g., sine of 35<sup>0</sup></b>	3	5	sin				
<b>Square Root e.g., root of 49</b>	4	9	√x				



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The Sharp EL-520W and Sharp EL-520X calculator is a scientific model as shown here.\*\*\*\*

The Sharp EL-520W, EL-520X & EL-531X provides all the scientific functions required for the trade exams. Instructions on the use of the various functions are provided below.

\*\*\*\* The EL-520X & EL-531X calculator have identical functions to the EL-520W calculator with only minor differences in physical appearance.\*\*\*\*



### Calculator Use Instructions

Note:

- To switch from the number or symbol on a black button to the yellow function above the button, press the **2ndF** key.
- To clear the calculator of a wrong function, a reset button is located at the back of the calculator.

Basic example,

<b>18 multiplied by 3.6</b>	1	8	x	3	.	6	
<b>Percent e.g., 7% of 96</b>	9	6	x	7	2ndF	%	1
<b>Fractions e.g., 2/3 + 1/4</b>	2	a <sup>b</sup> /c	3	+	1	a <sup>b</sup> /c	4
<b>Trigonometry e.g., sine of 35°</b>	sin	3	5				
<b>Square Root e.g, root of 49</b>	2ndF	√	x <sup>2</sup>	4	9		