



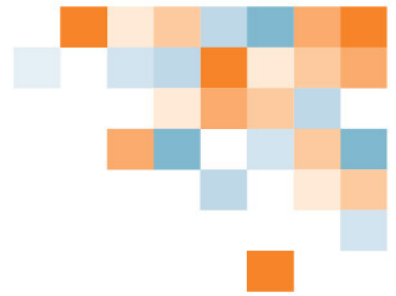
## CALCULATORS PROVIDED FOR ITA CERTIFICATION EXAMS

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



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

Carpenter "Red Seal"	Instrumentation and Control Technician (Industrial Instrument Mechanic) "Red Seal"	Petroleum Equipment Installer	Tool and Die Maker "Red Seal"
Community Antenna Television Technician	Industrial Mechanic (Millwright) "Red Seal"	Petroleum Equipment Service Technician	Tower Crane Operator "Red Seal" Pending
Concrete Finisher (Cement Mason) "Red Seal"	Insulator (Heat and Frost) (Heat and Frost Insulator) "Red Seal"	Planermill Maintenance Technician 1	Transport Trailer Technician (Commercial Trailer Mechanic) "Red Seal"
Cremationist	Lather (Interior Systems Mechanic) (Wall and Ceiling Installer) "Red Seal"	Planermill Maintenance Technician 2	Truck and Transport Mechanic (Commercial Transport Vehicle Mechanic) "Red Seal"
Dairy Production Technician	Locksmith	Plasterer	Utility Arborist
Diesel Engine Mechanic	Log Builder		Welder "Red Seal"
Drywall Finisher	Logistics and Distribution Person 2		

**Texas Instrument TI-30Xa**

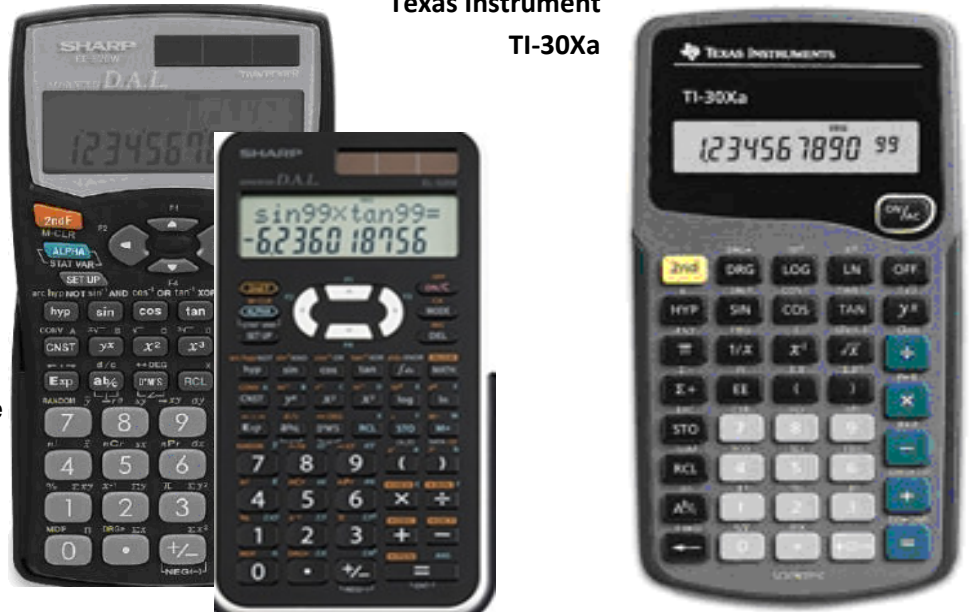
Architectural Sheet Metal Worker	Cabinet Maker (Joiner) "Red Seal"	Ironworker - Reinforcing "Red Seal"	Metal Fabricator (Fitter)
Automotive Glass Technician	Glazier "Red Seal"	Machinist "Red Seal"	Piledriver and Bridgeworker
Boilermaker (Construction Boilermaker) "Red Seal"	Ironworker Generalist (Ironworker)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

**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

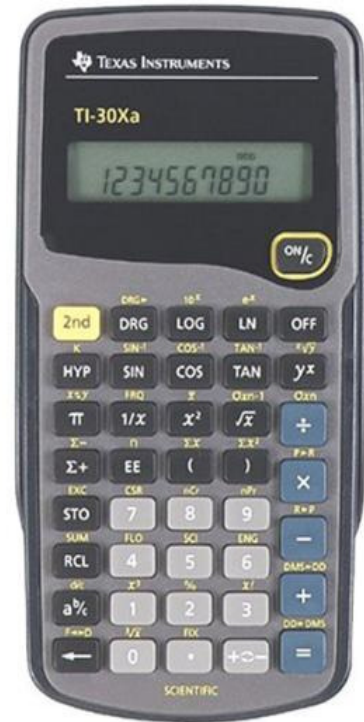
### IMPORTANT

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.

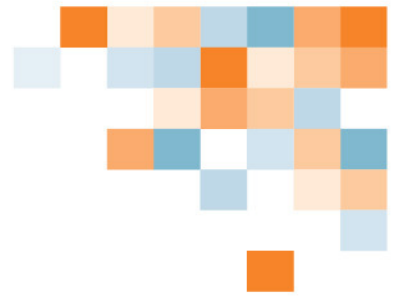


### Calculator Use Instructions

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> / <sub>c</sub>	3	+	1	a <sup>b</sup> / <sub>c</sub>	4
<b>Trigonometry e.g., sine of 35°</b>	3	5	sin				
<b>Square Root e.g., root of 49</b>	4	9	√x				



## IMPORTANT

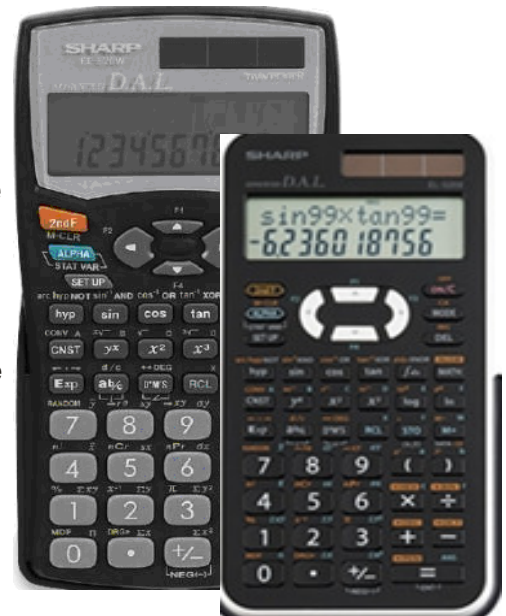
Due to increasing concerns about the security of exams, the Industry Training Authority now supplies all exam candidates with a calculator for a certification (IPSE and CofQ) exam. Calculators will be distributed based on the trade of the exam.

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

The 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	<b>2ndF</b>	%	1
<b>Fractions e.g., 2/3 + 1/4</b>	2	$\frac{a^b}{c}$	3	+	1	$\frac{a^b}{c}$	4
<b>Trigonometry e.g., sine of 35°</b>	<b>sin</b>	3	5				
<b>Square Root e.g, root of 49</b>	<b>2ndF</b>	$\sqrt{x^2}$	4	9			