



Quality Standard & Laboratory "QLSTANDARD, S.C."

Florencia No. 37, Int. 704, Colonia Juárez, Delegación Cuauhtémoc, C.P. 06600,
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ME-PA-2019-ME

PROFICIENCY TESTING PROGRAMS 2019

Schedule month	Proficiency testing program code	Testing method	Standard test method	Test item
JANUARY	QLS-EA03419	Determination of energy efficiency, electrical characteristics power factor of a lamp	IES NA LM-79:2008; IES NA LM-66:2014; IES LM-9:2009; IES LM-51:2013; IES LM-45:2015; IES LM-79:2008; Subsections 6.1.1, 6.12 and 7.1.1, 7.1.2 of the standard: ANSI C 82.2.2002; Subsection 9 of the standard: NOMX-J-530-ANCE-2008; NOM-028-ENER-2017, Appendix A, C; Subsection 8.2 of the standard: NOM-017-ENER-SCFI-2012; NOM-031-ENER-2012; NOM-064-SCFI-2000; Subsection 9 of the standard: NTC 5109:2002; Subsection 8 of the standard: NTC 4359:1997; Subsections 3.2.4 and 5.3.2 of the standard: NTC 189:2009; NTC 5112:2002 Annex B5; Subsection 6.10.2 of the standard: NMXJ-230-ANCE-2011; Subsection 6.3.7 of the standard: NMX-J-198-ANCE-2015; ANSI-ANSLG C82.11 2011, Annex C7.0; Subsection 6.1 of the standard: ANSI C82.6:2005.	Lamp (lighting)
	QLS-EA01119	Dielectric rigidity (insulation requirements)	Subsection 6.3.8.3 of the standard: NOM-022-ENER/SCFI-2014; Subsection 6.3 of the standard: NMX-J-515-ANCE-2014; Subsection 11.2 (b) of the standard: NOM-001-SCFI-1993; Subsection 5.5 of the standard: NOM-016-SCFI-1993; Subsection 17 of the standard: NOM-019-SCFI-1998; Subsection 8.4.7 of the standard: NOM-010-SESH-2012; ASTM D120-14A; ASTM D-1049-98; ASTM D1050-05; ASTM D1048-14; ASTM F496-14A;	Electronic device



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			NTC-2830; ASTM F2321-14; ANSI/SAIA A92.2; ASTM F479-06; IEEE 978-1984; Subsection 6.2 of the standard: NTC 5786:2010; UL2556:2015.	
FEBRUARY	QLS-EA00919	Energy efficiency and freezers and test temperature abatement (pull down)	Subsection 9 of the standard: NOM-015-ENER-2012; Subsection 5 of the standard: AHAM HRF-1-2008; Subsection 15 of the standard: ISO 15502 (E) Edition 1; Subsection 9 the Ecuadorian Technical Regulation: RTE INEN 009 (1R); Subsections 6.1 and 6.2 of the standard: NOM-022-ENER/SCFI-2014; IEC 62552-1-2 & 3:2015.	Refrigerator
	QLS-EA03219	Calibration of pressure gauges (0.00 psi to 1,000 psi and 0.00 psi to 10,000 psi)	DKD-R 6-1/2014; NTC 2263; COVENIN 2333-93; ME-003.	Pressure gauge
MARCH	QLS-EA02819	Test meter DN15 cold drinking water by the method of collection	ISO 4064:2016; Subsections 5.1 al 57 and 11.3 of Colombian Technical Standard NTC 1063-3:2017; NTC-ISO 4064:2016; NOM-012-SCFI-1994; NMX-CH-001/3-1993-SCFI.	Water meter
	QLS-EA04119	Temperature rise test	Subsection 17 of the standard: NTC 1337:2004; Subsection 17 of the standard: IEC 60669-1; Subsection 19 of the standard: NTC 1650:2004; Subsection 19 of the standard: IEC 60884-1; Subsection 9.8 of the standard: NTC 2116:1998; Subsection 9.8 of the standard: IEC 60898-1:2002; Subsection 6.5 & 8.5 of the standard: NOM-064-SCFI-2000; Subsection C.2 Appendix C of the standard: NMX-J-515-ANCE-2014.	Electronic device
APRIL	QLS-EA02419	Safety procedures for transformers: Measuring winding resistance	NTC 375 Subsection 5 of the standard: IEEE C57.12.90-2015; Subsection 11.2 of the standard: IEC 60076-1:2011; NTC 375; Subsection 4 of the standard: NMX-J-169-ANCE-2015.	Transformer



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	QLS-EA02519	Transformation relation	NTC 471; Subsection 7 of the standard: IEEE C57.12.90-2015; Subsection 11.3 of the standard: IEC 60076-1:2011; Subsection 6 of the standard: NMX-J-169-ANCE-2015.	
	QLS-EA02619	Load losses and excitation current (Voltmeter method, mean value and RMS Ammeter)	NTC 1031; Subsection 8 of the standard: IEEE C57.12.90-2015; Subsection 11.5 of the standard: IEC 60076-1:2011; Subsection 7 of the standard: NMX-J-169-ANCE-2015.	
	QLS-EA02719	Impedance measurement and short circuit losses due to the load (short circuit method)	NTC 1031; Subsection 9 of the standard: IEEE C57.12.90-2015; Subsection 11.4 of the standard: IEC 60076-1:2011; Subsection 8 of the standard: NMX-J-169-ANCE-2015.	
MAY	QLS-EA00419	Leakage current and resistance of the dielectric to tension at operating temperature	Subsection 13 of the standard: NMX-J-521/1-ANCE-2012; Subsection 13 of the standard: IEC 60335-1 Edition 5; Subsection 6.3.6.2 of the standard: NOM-022-ENER/SCFI-2014; Subsection 13 of the standard: NMX-J-524/1-ANCE-2013; Subsection 13 of the standard: IEC 60745-1 Edition 4; Subsection 13 of the standard: NTC 2252; Subsection 13 of the standard: NTC 2183; NTE INEN-IEC 60335-1; Subsection 13 of the standard: NTC 2386.	Electronic device
	QLS-EA00519	Leakage current and resistance of the dielectric to tension	Subsection 16 of the standard: NMX-J-521/1-ANCE-2012; Subsection 16 of the standard: IEC 60335-1 Edition 5; Subsection 15 of the standard: NMX-J-524/1-ANCE-2013; Subsection 15 of the standard: IEC 60745-1 Edition 4; Subsection 6.3.8.2 of the standard: NOM-022-ENER/SCFI-2014; Subsection 16 of the standard: NTC 2183; NTE INEN IEC 60335-1; Subsection 16 of the standard: NTC 2386.	



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JUNE	QLS-EA03319	Determination of cross-sectional area of electrical conductors in function of its mass	NMX-J-129-ANCE-2007; NTC 3203:2006; UL 1581; Subsections 3.1, 3.2 and 3.3 of the standard: UL 2556:2015; NTE INEN 2 345:2004; No. 013-2016- Produce; Subsection 3.2 of the standard: NTC 5786:2010.	Conducting wire
	QLS-EA00119	Determination of diameter and cross sectional area of the electrical conductors	Subsection 15 of the standard: NOM-001-SCFI-1993; Subsection 25.8 of the standard: NMX-J-521/1-ANCE-2012; Subsection 25.8 of the standard: IEC 60335-1 Edition 5; Subsection 24.5 of the standard: NMX-J-524/1-ANCE-2013; Subsection 24.5 of the standard: IEC 60745-1, Edition 4; Subsection 4, addendum A, B and C of the standard: NMX-J-066-ANCE-2017; Subsection 8.4.2 of the standard: NOM-010-SESH-2012; Subsection 7 of the standard: NTC 5891; IEC 62552:2007; ASTM B263.	
JULY	QLS-EA03119	Determination of the electrical resistance to DC	Subsection 6.1 of the standard: NMX-J-212-ANCE-2017.	Conducting wire
	QLS-EA01019	Energy efficiency of household electric washing machines	Subsection 9 of the standard: NOM-005-ENER-2016 (NMX-J-585-ANCE-2014; INEN-2259-2013); UNE EN 60456:-2016; IEC 60456:2010; NMX-J-528-ANCE-2011; NTE INEN 2659:2016; RTE INEN 077.	Household electric washing machine
AUGUST	QLS-EA00619	Input Power and Current	Subsection 10 of the standard: NMX-J-521/1-ANCE-2012; Subsection 10 of the standard: IEC 60335-1; Edition 5; Subsection 6.3.4 of the standard: NOM-022-ENER/SCFI-2014; NTC 2183; NTE INEN-IEC 60335-1.	Electronic device
	QLS-EA01219	Insulation resistance	Subsection 11.2(a) of the standard: NOM-001-SCFI-1993; Subsection 5.6 of the standard: NOM-016-SCFI-1993; Subsection 8.4.8 of the standard: NOM-010-SESH-2012; IEC 60065; ANSI/UL 60065; Seventh Edition; UL 6500; CAN/CSA-C22.2 No. 60065:16	



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SEPTEMBER	QLS-EA00719	Heating	Subsection 11 of the standard: NMX-J-521/1-ANCE-2012; Subsection 11 of the standard: IEC 60335-1 Edition 5; Subsection 6.3.5 of the standard: NOM-022-ENER/SCFI-2014; Subsection 11 of the standard: NTC 2252; Subsection 11 of the standard: NTC 2183; NTE INEN-IEC 60335-1.	Electronic device
	QLS-EA03619	Fuse capacity to interrupt the electrical energy under conditions without load, normal load and overload (tests of time and current fusion)	Appendix C Subsection C.5 of the standard: NMX-J-515-ANCE-2014; Subsections 5.1, 10, 11,12 and 14 of the standard: NTC 2132/2006; Numerals 4, 9, 10 and 11 of the standard IEEE C37.41-2016; IEC 60269 Parte 1; UL 248; CSA-22.2.	Fuse
OCTOBER	QLS-EA00219	Protection against access to live parts	Subsection 8 of the standard: NMX-J-521/1-ANCE-2012; Subsection 8 of the standard: IEC 60335-1 Edition 5; Subsection 9.1 of the standard: NMX-J-524/1-ANCE-2013; Subsection 9 of the standard: IEC 60745-1 Edition 4; Subsection 6.3.2 of the standard: NOM-022-ENER/SCFI-2014; Subsection 8 of the standard: NTC 2252; Subsection 8 of the standard NTC 2183; Standard NTE INEN-IEC 60335-1; Subsection 10.1 of the standard: NTC 1337:2004; Subsection 10.102 of the standard: UNE EN 60669-2-1:2005; Subsection 10.103 of the standard: UNE EN 60669-2-1:2005; Subsections 10.1; 10.5 and 10.6 of the standard: NTC 1650:2004; NMX-J-515-ANCE-2014; NTC 2386 Subsection 8.	Electronic device
	QLS-EA01719	Safety tests for tires: Dimensions of the tire (minimum factor measurement)	Subsection 7.1 of the standard: NOM-086-SCFI-2018; Subsection 7.1 of the standard: NOM-086/1-SCFI-2011; Subsection 3.1 of the standard: INEN 2097:2012; Subsection 6.1 of the standard: NTC 1275-1; FMVSS 139 S	Car tire



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			6.1; Subsection 3.1 of the standard: INEN 2098:98.	
	QLS-EA01819	Safety tests for tires: Behavior of the tire at the speed	Subsection 7.2 of the standard: NOM-086-SCFI-2018; Subsections 7.5, 7.5.1 and 7.5.2 of the standard: NOM-086/1-SCFI-2011; Subsection 6.4 of the standard: NTC 1275-1; FMVSS 139 S 6.4.	
NOVEMBER	QLS-EA01919	Safety tests for tires: Behavior of the tire to the load and the low inflation pressure	Subsection 7.3 of the standard: NOM-086-SCFI-2018.	Car tire
	QLS-EA02019	Safety tests for tires: Behavior of the tire to the load	Subsections 7.4, 7.4.1 and 7.4.2 of the standard: NOM-086/1-SCFI-2011.	
	QLS-EA02119	Safety tests for tires: Resistance to penetration	NTC 1275-2 Subsection 5.3; FMVSS 109 S 5.3; NTC 1303 Subsection 7.3; FMVSS 119 S 7.3.	
	QLS-EA02219	Safety tests for tires: Strength of edge to the dismantling of the wheel tubeless	NTC 1275-2 Subsection 5.2; FMVSS 109 S 5.2.	
	QLS-EA02319	Resistance to removal of the wheel rim and temporary refraction radial tubeless diagonal for cars; Rim resistance to penetration	Subsections 7.4 and 7.5 of the standard: NOM-086-SCFI-2018; Subsections 7.2 and 7.3 of the standard: NOM-086/1-SCFI-2011; Subsection 3.2 of the standard: INEN 2097:2012; FMVSS 129 S 6.6 and 5.2; FMVSS 119 Subsection 7.3; Subsection 3.3 of the standard: INEN 2097:2012; Subsection 3.2 of the standard: INEN 2098; Subsection 6.5.1 of the standard: FMVSS 139; Subsection 5.3 of the standard: FMVSS 109; FMVSS 139; FMVSS 119; NTC 1275-2.	