



Release Of Updated Training Standard Log Book

Trade Name & Code	447A Instrumentation and Control Technician
Implementation Date of New Standard	January 6, 2017, released as Version 300
Implementation Plan	<ul style="list-style-type: none"> Apprentices who began their apprenticeship on the former 2009 Training Standard can complete their program using that standard. All apprentices with initial training agreements registered on or after January 6, 2017 must be trained to this new standard. On or after January 6, 2017 any apprentice who loses his or her training standard must be trained to and completed with the new standard even if they began their apprenticeship with the 2009 version.
Impact on Curriculum Standards	N/A
Training Standard Access	<p>As of January 6, 2017:</p> <ul style="list-style-type: none"> The new Log Book will be available on the Ontario College of Trades (the 'College') website at collegeoftrades.ca/training-standards. The College will mail a printed Log Book to apprentices who become new members of the Apprentices class in the Instrumentation and Control Technician trade when they are mailed the apprentice Statement of Membership card. If the apprentice wants a copy of the Log Book before receiving the printed copy in the mail, the apprentice can download/print a copy from the College's website.
Skill(s) or Skill Set(s) Added	<ul style="list-style-type: none"> Skill U6559.16 Demonstrate knowledge of Supervisory Control and Data Acquisition (SCADA) systems. <p>Rationale: The working group felt that this skill set has to be added as it is the general working frame in which some or all elements seen in this training standard could work independently or as a whole unit depending on the need of the working environment. Depending on the employer, this might be something that the apprentice could be exposed to, but it is not guaranteed and as such it will be an optional skill.</p>
Optional Skills Become Mandatory	<ul style="list-style-type: none"> Skill U6553.04 Install motion, speed, position or vibration measuring or indicating devices <p>Rationale: The working group felt that this skill should become mandatory as current technology involves all of the mentioned devices.</p> <ul style="list-style-type: none"> Content of Skills U6554.02 and U6554.03 has been included under U6554.01 <p>Rationale: The working group felt there was no need for unnecessary repetition of content.</p>



	<ul style="list-style-type: none"> • Skill U6559.03 Install stand-alone controllers (pneumatic and electronic) Rationale: The working group felt that this skill set should become mandatory as these are present control systems in current technology. • Skill U6559.07 Configure Programmable Logic Controllers (PLCs) Rationale: The working group felt that this skill set should become mandatory as these are present control systems in current technology.
Change: New Optional Skills or Mandatory Skills Become Optional	<ul style="list-style-type: none"> • Skill U6559.16 Demonstrate knowledge of Supervisory Control and Data Acquisition (SCADA) systems. Rationale: The working group felt that this skill set has to be added as it is the general working frame in which some or all elements seen in this training standard could work independently or as a whole unit depending on the need of the working environment. Depending on the employer, this might be something that the apprentice could be exposed to, but it is not guaranteed and as such it will be an optional skill.
Skills Moved	<ul style="list-style-type: none"> • Skill set U6556.01 Install hydraulic equipment is now U6556.06 • Skill set U6556.02 Troubleshoot hydraulic equipment controls is now U6556.07 • Skill set U6556.03 Perform preventative maintenance on hydraulic equipment is now U6556.08
Skill(s) &/or Skill Set(s) Removed	<p>Skill U6554.05 is now U6554.03 and skill U6554.06 is now U6554.04 Rationale: Both skills were not removed, but they were renumbered.</p>
General Notes & Rationale	<ul style="list-style-type: none"> • The 2015 Training Standard was last updated in 2009 and was no longer reflective of industry needs. All of the changes reflect the evolution of the trade and industry needs and more clearly parallels the terminology and competencies in the National Occupational Analysis (NOA). <p>General terminology was changed or removed throughout the document to make this Training Standard a concise and reflective document. These terms are:</p> <ul style="list-style-type: none"> • Change of the terms “screwing and bolt” to “fastening” in most of the skill sets across this training standard as it is a more updated and commonly used term in the industry. • Change of term “backup” to “and updating” in most of the skill sets across this training standard as industry uses strict record keeping in all tasks performed and it is not only a backup of information. • Change of the term “make-safe” to “safety” as it is the current term used in the industry. • Addition of the terms “completion, confirm operation and operational” to better reflect the current standards in the industry. • Addition of the term “and technology” as computer software and hardware is needed some cases and more often given new technology. • Removal of term “by following required procedures” in most of the skill sets across this training standard as each skill set is a procedure by itself and describes the steps to follow within this procedure.