

ISA	CFSE	TÜV Rheinland
<p>ISA 84 Expert</p> <ul style="list-style-type: none"> • 5 years industry experience • 2 years PHA / SIL selection experience • 2 years SIL verification (and/or other related) experience • Take all three ISA SIS courses (totaling 7 days) on fundamentals, SIL selection and SIL verification • Take all three ISA exams (each exam has 75 questions) 	<p>Certified Functional Safety Expert (CSFE)</p> <ul style="list-style-type: none"> • 10 years experience • 4 references • Resume & experience (technical degree, publications, etc.) • Exam required (1-day) 	<p>Functional Safety Expert (FSExp)</p> <ul style="list-style-type: none"> • 10 years experience • 2 case studies • 2 external references • Resume & experience (technical degree, publications, etc.) • <i>No exam required</i>
<p>SIS Fundamentals Specialist (SFS)</p> <ul style="list-style-type: none"> • No experience requirement • No references required • 3-day preparatory course required • Exam required (2-hours, 75 questions) • Course and exam approximately \$1,700 	<p>Certified Functional Safety Professional (CFSP)</p> <ul style="list-style-type: none"> • 2 years experience • 4 references • Resume & experience (technical degree, publications, etc.) • Preparatory course <i>not</i> required • Exam required (1/2-day) 	<p>Functional Safety Engineer (FSEng)</p> <ul style="list-style-type: none"> • 3 years experience • 4 references • Resume (technical degree, etc.) • 3 to 4 day preparatory course required • Exam required (1/2-day) • Course & exam approximately \$3,000
<p>Taking the ISA courses is required before taking the exams. Students have up to 3 months after a course (to study) before taking the exam electronically at a testing center.</p>	<p>A preparatory course is <i>not</i> required to take either exam.</p>	<p>Taking an FSEng course is required before taking the exam (the next day). If someone fails the exam, they may only retake it after retaking the course.</p>
<p>ISA courses are standardized.</p>	<p>Courses are available, but will differ between course providers. Courses are reviewed by the CFSE Board.</p>	<p>Experts create and teach the courses. Courses will differ, but are reviewed by TÜV. TÜV sets minimum pricing levels.</p>
<p>A team of ISA experts created the exams. There is one price for the courses and exams.</p>	<p>The CFSE Boards create the exams, which others may proctor. <i>There is only one exam</i> for each discipline. There is one cost for the exam and certification.</p>	<p>Each Expert creates their own exam. Exams will differ, but are reviewed by TÜV. TÜV sets minimum pricing levels.</p>
<p>Candidates must submit their credentials <i>before</i> taking a course and exam.</p>	<p>Candidates must submit their credentials <i>before</i> taking the exam.</p>	<p>Candidates submit their credentials <i>after</i> taking the course and exam (and may therefore not meet the requirements even if they pass the exam).</p>