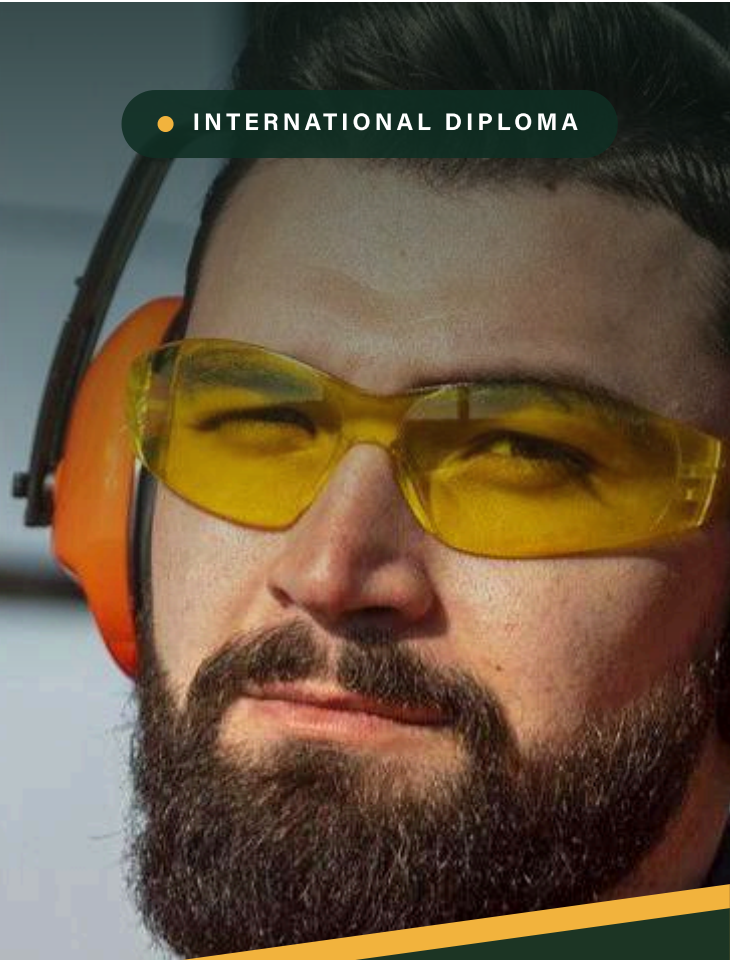




AMERICAN INSTITUTE
OF SAFETY PROFESSIONALS

● INTERNATIONAL DIPLOMA



COURSE CODE • 1017

INTERNATIONAL DIPLOMA IN ADVANCED TOXICOLOGY

The toxicology-specific diploma in the AISP portfolio. Understand how chemicals cause harm, from molecular mechanisms and dose-response to target organ effects, exposure assessment, regulatory risk assessment and emerging hazards.

Level 7 (equivalence)

6 core units

Assignment-based, no written examinations

480

Hours (TQT)

180

Guided learning hours

6

Core units

100%

Assignment-based

DIPLOMA OVERVIEW

Understand the science behind exposure limits and turn toxicological evidence into defensible risk decisions.

The International Diploma in Advanced Toxicology develops advanced scientific, analytical and regulatory competence in toxicology and chemical risk assessment. It reflects U.S. regulatory practice and internationally recognized scientific frameworks used in occupational, environmental, pharmaceutical and public health toxicology.

Rather than simply citing exposure limits, you will learn how chemicals cause harm at molecular, cellular, organ and population levels. The program integrates mechanistic toxicology, dose-response science, exposure assessment and regulatory toxicology (OSHA, EPA and FDA), alongside nanotoxicology, mixtures, endocrine disruptors and computational methods.

GRADUATE CAPABILITIES



Toxicokinetics

Interpret toxicokinetic and toxicodynamic data for risk assessment



Dose-response

Evaluate dose-response relationships and derive health-based reference values



Toxicity outcomes

Assess organ-specific, genetic, developmental and chronic toxicity



Regulatory frameworks

Apply EPA, OSHA and FDA regulatory toxicology frameworks



Risk characterization

Integrate mechanistic, epidemiological and modeling data into defensible conclusions



Communication

Communicate complex findings to regulators, management and stakeholders

WHO IT'S FOR

Industrial hygienists

Occupational health physicians and nurses

Toxicologists

Regulatory affairs professionals

Risk assessors

Product safety professionals

For professionals in chemical, pharmaceutical, petroleum, agricultural and consumer products industries who need to interpret toxicological data and support regulatory decisions.

AT A GLANCE

480 hrs

Total qualification time

180 hrs

Guided learning

300 hrs

Self-study and research



SIX CORE UNITS

Six units progress from the foundations of toxicological science and organ toxicity through genetic and chronic effects and exposure assessment to regulatory frameworks and emerging hazards.

480

Hours (TQT)

6

Core units

100%

Assignment-based

Each unit: 80 hours total
qualification time (30 guided
learning + 50 self-study).

UNIT	UNIT TITLE AND CONTENT	HOURS
1017/101	Foundations of Advanced Toxicological Science Toxicokinetics and toxicodynamics; absorption, distribution, metabolism (Phase I/II, cytochrome P450) and excretion; threshold and non-threshold models, NOAEL, LOAEL, benchmark dose and reference doses.	80 30 GLH
1017/102	Target Organ Toxicity and Systemic Effects Hepatic, renal, neurological, cardiovascular, pulmonary, dermal, reproductive and endocrine toxicity; occupational asthma and pneumoconioses; biomarkers of effect.	80 30 GLH
1017/103	Genetic, Developmental, and Chronic Toxicology Carcinogenesis and IARC classification; mutagenicity, the Ames test and in vivo assays; teratogenicity and critical windows; latency, cumulative dose and attributing occupational disease.	80 30 GLH
1017/104	Exposure Assessment and Occupational Toxicology Inhalation, dermal and ingestion pathways; personal and area sampling; biological monitoring; exposure modeling; OSHA PELs, ACGIH TLVs and NIOSH RELs and their limitations; occupational epidemiology.	80 30 GLH
1017/105	Regulatory Toxicology and Risk Assessment Frameworks OSHA PEL derivation; EPA IRIS, reference doses and cancer slope factors; FDA ADI and GRAS; the four-step risk assessment paradigm; uncertainty factors; GHS and REACH compared with the U.S. approach.	80 30 GLH
1017/106	Applied Toxicology, Emerging Hazards, and Advanced Risk Control Nanotoxicology; mixture toxicity and cumulative risk; endocrine-disrupting chemicals and non-monotonic dose-response; computational toxicology, QSAR and adverse outcome pathways.	80 30 GLH

DELIVERY MODEL

Structured, assignment-based study built for working professionals, with guided independent study, applied research and workplace-relevant analysis instead of fixed lecture schedules.



Online eLearning

Delivered through the AISP Student Dashboard (LMS)



480 Hours

180 guided learning + 300 self-study



Self-Paced

Study around your work; most learners complete in 6–12 months



Lifetime Access

Your learning resources remain in your Student Dashboard after completion



Language: Instruction and assessment are in English. Professional written English is required.



Tutor support: Qualified tutors with industry and academic expertise provide academic guidance, clarify technical and regulatory expectations and give constructive feedback throughout. A designated assessor supports you at every stage.

REGULATORY AND INDUSTRY ALIGNMENT

- ✓ EPA human health and environmental risk assessment methods
- ✓ OSHA occupational exposure and health risk principles
- ✓ FDA toxicological evaluation concepts for products and ingredients
- ✓ ATSDR and public health toxicology approaches
- ✓ GHS classification and international hazard identification guidance

YOUR PATH TO THE DIPLOMA

1

Enroll online

Register and access all six units through your Student Dashboard.

2

Study and submit

Work through each unit and submit a formative and a summative assignment for assessment.

3

Earn your diploma

Pass all six units to receive your diploma certificate, transcript and wallet card.



ASSESSED ON WHAT YOU CAN DO

This diploma is assessed entirely through assignment, with no written examinations. Assignments test your ability to interpret toxicological evidence and apply regulatory risk assessment frameworks to realistic chemical exposure scenarios.

12

Assignments (2 per unit)

26–33k

Words in total

0

Written exams

Pass / Fail

Assessment outcome



Formative (each unit)

800–1,000 words: a technical discussion paper, white paper or guidance document, with developmental feedback from your assessor.



Summative (each unit)

3,500–4,500 words: a professional report that applies toxicological and risk assessment methods to a realistic scenario and reaches a defensible, evidence-based risk characterization with recommendations.



Standards & integrity

Submitted through the student portal and graded by a qualified assessor against a published marking rubric. Work must be properly referenced and is checked for similarity; plagiarism, collusion or contract cheating can lead to disqualification. All assessment decisions are subject to internal quality assurance.



ENTRY REQUIREMENTS

- ✓ A science background (chemistry, biology, pharmacology, medicine, environmental science or related) is strongly recommended.
- ✓ Familiarity with chemical hazard management and exposure assessment is helpful.
- ✓ No formal degree is required.

Professional written English is required, as instruction and assessment are in English.

WHO SHOULD ENROLL

- › Industrial hygienists and occupational health professionals
- › Occupational health physicians and nurses
- › Toxicologists seeking a formal qualification
- › Regulatory affairs professionals (OSHA, EPA, FDA) and risk assessors
- › Safety managers and HSE directors in chemical, pharmaceutical, petroleum and agricultural industries

WHAT YOU RECEIVE

Sample documents shown ·
personal details redacted



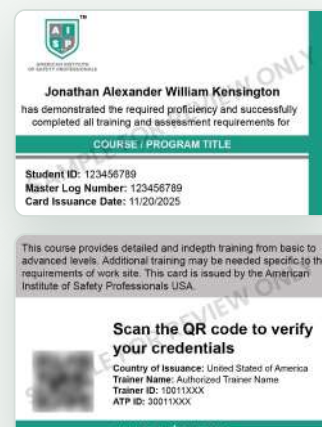
Diploma Certificate

The International Diploma in Advanced Toxicology, issued by American Institute of Safety Professionals LLC, USA, as a digital certificate (PDF) with QR verification. The hardbound option also includes a printed copy, posted to you.



Official Student Transcript

A formal record of all six units completed and the hours achieved.



Wallet Card

A professional wallet card to carry proof of your diploma on the job.

All three documents are verifiable by employers at [amiosp.com/student-verifications](https://www.amiosp.com/student-verifications).



WHERE THIS DIPLOMA FITS

Toxicology explains why exposure limits exist; the Advanced Industrial Hygiene diploma (1022) explains how to measure and control exposure. Holding both gives full occupational health competence.

DIPLOMA FEES

Refer to website for prices



Digital
(PDF)

Hardbound + Digital

Courier charges for hardbound copies are quoted separately before dispatch.

Payment assistance
accounts@amiosp.com

THE AISP ADVANTAGE WHY CHOOSE US?



Employer-verifiable worldwide

Every diploma carries a Master Log Number and QR code for instant online verification.



Built for working professionals

Fully online and self-paced, with no exams to sit and no time away from work.



Industry-relevant content

Connects mechanistic toxicology directly to OSHA, EPA and FDA regulatory practice.



Expert-developed and quality assured

Developed by subject specialists and governed by internal quality assurance for consistent, fair assessment.



Trusted by employers

A credential employers can check in seconds and recognize for its depth.

WHERE THIS DIPLOMA CAN TAKE YOU

The diploma supports progression into senior toxicology and risk assessment roles, including:

- Senior Toxicologist / Corporate Toxicology Director
- Occupational Toxicologist
- Regulatory Toxicologist / Risk Assessment Scientist
- Senior Industrial Hygienist (toxicology specialization)
- Environmental Health Risk Assessor
- Toxicology Consultant

For reference, the figures below show published U.S. earnings for occupational health and safety specialists, a related occupation. They are not an indication of earnings after this diploma.

UNITED STATES DATA ONLY

\$93,860

Mean annual wage

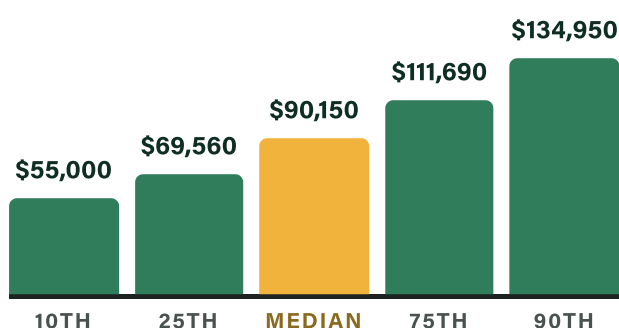
\$90,150

Median annual wage

140,610

Employed nationwide

ANNUAL WAGE RANGE



TOP-PAYING INDUSTRIES

Oil and gas extraction	\$120,700
Scientific R&D services	\$118,800
Aerospace products mfg.	\$118,560
Electric power generation & distribution	\$117,990
Chemical manufacturing*	\$106,400

* Chemical manufacturing: NAICS 3251, 3252, 3253 and 3259 only.

Source: U.S. Bureau of Labor Statistics, Occupational Employment and Wage Statistics, May 2025 (SOC 19-5011, Occupational Health and Safety Specialists). United States only; excludes self-employed workers. Earnings vary by experience, location and employer; no salary is guaranteed.

FREQUENTLY ASKED QUESTIONS

Quick answers about the diploma, how it is assessed and what you receive.



STILL HAVE QUESTIONS?

GENERAL
info@amiosp.com

PAYMENTS
accounts@amiosp.com

CALL
+1 (689) 286-3561



ABOUT THE DIPLOMA

Q01

Who is this diploma for?

Industrial hygienists, occupational health clinicians, toxicologists, regulatory affairs professionals, risk assessors and product safety specialists.

Q02

How is it different from Advanced Industrial Hygiene?

Toxicology covers the science behind exposure limits. Industrial Hygiene (1022) covers measuring and controlling exposures. They are designed to be taken together.

Q03

Is this a university degree?

No. It is a professional qualification awarded by the American Institute of Safety Professionals. It does not confer statutory authority, professional licensure or regulatory approval.



STUDY & ASSESSMENT

Q04

How is the diploma delivered?

Fully online through the AISP Student Dashboard (LMS), self-paced, with tutor guidance and a designated assessor.

Q05

How is it assessed?

Through two written assignments per unit (12 in total), graded Pass / Fail against a marking rubric. There are no written examinations.

Q06

How long does it take?

480 hours of total qualification time. Most learners complete the diploma in 6–12 months while working.



ENTRY & AWARD

Q07

Do I need a degree to enroll?

No. A science background is strongly recommended but not required.

Q08

What do I receive?

A diploma certificate, an official transcript and a wallet card, all verifiable at amiosp.com/student-verifications.

Q09

How much does the diploma cost?

Digital and hardbound options are available. See current prices on the [diploma page](#).



AMERICAN INSTITUTE
OF SAFETY PROFESSIONALS

ENROLL TODAY

ADVANCE YOUR PROFESSIONAL STANDING

Master the science that underpins every exposure limit and chemical risk decision. Enroll online and begin your diploma through your AISP Student Dashboard.

ENROLL AT [AMIOSP.COM](https://amiosp.com) →

CONTACT US

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Payments: accounts@amiosp.com

American Institute of Safety Professionals LLC (Company Reg. No. 15202418). This diploma is an educational and professional qualification. It does not confer statutory authority, professional licensure or regulatory approval. Responsibility for regulatory compliance and legal duties remains with employers, regulators and designated duty holders.

[WWW.AMIOSP.COM](https://www.amiosp.com)



QUALITY ASSURANCE & ACADEMIC INTEGRITY

All delivery and assessment are governed by an internal quality assurance framework that protects academic standards, ensures consistent assessment decisions and maintains the integrity of the qualification.