As Introduced

134th General Assembly

Regular Session

H. B. No. 235

2021-2022

Representatives Swearingen, Baldridge

Cosponsors: Representatives Edwards, Ghanbari, Stephens, Cutrona, Jones, Plummer, Troy, Johnson, White, Click, Ray, Patton, Abrams, Manning, Callender, Loychik, Fraizer, Hillyer, Stewart, Sheehy, Sobecki, Sweeney, Kelly, Galonski

A BILL

То	amend sections 121.083 and 121.084 and to enact	1
	sections 4145.01, 4145.02, 4145.03, 4145.04,	2
	4145.05, 4145.06, 4145.07, 4145.08, 4145.09,	3
	4145.10, 4145.11, and 4145.12 of the Revised	4
	Code to enact the High Hazard Training	5
	Certification (HHTC) Act regarding construction	6
	services performed under a contract at a	7
	stationary source.	8

BE IT ENACTED BY THE GENERAL ASSEMBLY OF THE STATE OF OHIO:

Section 1. That sections 121.083 and 121.084 be amended	9
and sections 4145.01, 4145.02, 4145.03, 4145.04, 4145.05,	10
4145.06, 4145.07, 4145.08, 4145.09, 4145.10, 4145.11, and	11
4145.12 of the Revised Code be enacted to read as follows:	12
Sec. 121.083. (A) The superintendent of industrial	13
compliance in the department of commerce shall do all of the	14
following:	15
(1) Administer and enforce the general laws of this state	16

pertaining to buildings, pressure piping, boilers, bedding,	17
upholstered furniture, and stuffed toys, steam engineering,	18
elevators, plumbing, licensed occupations regulated by the	19
department, and travel agents, as they apply to plans review,	20
inspection, code enforcement, testing, licensing, registration,	21
and certification.	22
(2) Exercise the powers and perform the duties delegated	23
to the superintendent by the director of commerce under Chapters	24
4109., 4111., and 4115., and 4145. of the Revised Code.	25
(3) Collect and collate statistics as are necessary.	26
(4) Examine and license persons who desire to act as steam	27
engineers, to operate steam boilers, and to act as inspectors of	28
steam boilers, provide for the scope, conduct, and time of such	29
examinations, provide for, regulate, and enforce the renewal and	30
revocation of such licenses, inspect and examine steam boilers	31
and make, publish, and enforce rules and orders for the	32
construction, installation, inspection, and operation of steam	33
boilers, and do, require, and enforce all things necessary to	34
make such examination, inspection, and requirement efficient.	35
(5) Rent and furnish offices as needed in cities in this	36
state for the conduct of its affairs.	37
(6) Oversee a chief of construction and compliance, a	38
chief of operations and maintenance, a chief of licensing and	39
certification, a chief of worker protection, and other designees	40
appointed by the director to perform the duties described in	41
this section.	42
(7) Enforce the rules the board of building standards	43
adopts pursuant to division (A)(2) of section 4104.43 of the	44

Revised Code under the circumstances described in division (D)

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of that section.	46
(8) Accept submissions, establish a fee for submissions,	47
and review submissions of certified welding and brazing	48
procedure specifications, procedure qualification records, and	49
performance qualification records for building services piping	50
as required by section 4104.44 of the Revised Code.	51
(B) The superintendent may enter into a contract with a	52
municipal corporation, township, or county building department	53
certified by the board of building standards pursuant to	54
division (E) of section 3781.10 of the Revised Code, or a	55
municipal or county health district, to do any of the following	56
on behalf of the building department or health district:	57
(1) Exercise enforcement authority pursuant to section	58
3781.03 of the Revised Code;	59
(2) Accept and approve plans and specifications, and make	60
inspections, pursuant to section 3791.04 of the Revised Code;	61
(3) Enforce the rules adopted pursuant to division (A)(2)	62
of section 4104.43 of the Revised Code.	63
Sec. 121.084. (A) All moneys collected under sections	64
3783.05, 3791.07, 4104.07, 4104.18, 4104.44, 4105.17, 4105.20,	65
4145.09, 4169.03, and 5104.051 of the Revised Code, and any	66
other moneys collected by the division of industrial compliance	67
shall be paid into the state treasury to the credit of the	68
industrial compliance operating fund, which is hereby created.	69
The department of commerce shall use the moneys in the fund for	70
paying the operating expenses of the division and the	71
administrative assessment described in division (B) of this	72
section.	73
(B) The director of commerce, with the approval of the	74

director of budget and management, shall prescribe procedures	75
for assessing the industrial compliance operating fund a	76
proportionate share of the administrative costs of the	77
department of commerce. The assessment shall be made in	78
accordance with those procedures and be paid from the industrial	79
compliance operating fund to the division of administration fund	80
created in section 121.08 of the Revised Code.	81
Sec. 4145.01. As used in this chapter:	82
(A) "Apprentice" means a person who is participating in a	83
registered apprenticeship program to learn a skilled occupation	84
pursuant to a registered apprenticeship agreement as defined in	85
section 4139.01 of the Revised Code or 29 C.F.R. 29.2.	86
(B) "Construction" means all service performed at a	87
stationary source, including maintenance, repair, assembly,	88
disassembly, alteration, demolition, modernization, and	89
installation services.	90
(C) "Contractor" means any person who undertakes	91
construction at a stationary source under a contract with an	92
owner or operator.	93
(D) "Owner or operator" means a person who owns or	94
operates a stationary source at which the person engages in	95
activities described in code 324110 of the 2017 north American	96
industry classification system and at which the person engages	97
in one or more covered processes for which the person is	98
required to prepare and submit a risk management plan under the	99
"Clean Air Act," 42 U.S.C. 7412. "Owner or operator" does not	100
include a person who controls the means of engaging in oil and	101
gas extraction operations.	102
(E)(1) "Registered apprenticeship program" means any of	103

<pre>the following programs:</pre>	104
(a) A program that trains an individual for a trade or	105
occupation through paid on-the-job training and related	106
instruction that is registered with the United States department	107
of labor as meeting the minimum standards established by the	108
"National Apprenticeship Act of 1937," 29 U.S.C. 50, and 29	109
C.F.R. Part 29, Subpart A;	110
(b) An apprenticeship program registered by the department	111
of job and family services under Chapter 4139. of the Revised	112
Code;	113
(c) An apprenticeship program registered by the state	114
apprenticeship agency of another state that has been authorized	115
to register apprenticeship programs for federal purposes under	116
the laws of that state.	117
(2) "Registered apprenticeship program" may include any	118
apprenticeship program subject to the "Employee Retirement	119
<pre>Income Security Act of 1974," 29 U.S.C. 1001, et seq., as</pre>	120
amended or an apprenticeship program supported through an	121
<pre>employer's general funds.</pre>	122
(3) "Registered apprenticeship program" does not include	123
an industry-recognized apprenticeship program as described under	124
29 C.F.R. Part 29, Subpart B.	125
(F) "Class A skilled journeyperson" means an individual	126
who satisfies the requirements of division (A) of section	127
4145.02 of the Revised Code.	128
(G) "Class B skilled journeyperson" means an individual	129
who satisfies the requirements of division (B) of section	130
4145.02 of the Revised Code.	131

(H) "State apprenticeship agency" means the state	132
government agency that is authorized by the United States	133
department of labor to register and oversee apprenticeship	134
programs in the state.	135
(I) (1) "Stationary source" means any building, structure,	136
facility, or installation that emits or may emit any regulated	137
air pollutant or any pollutant listed under the "Clean Air Act,"	138
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42 U.S.C. 7412, except those emissions resulting directly from	
an internal combustion engine for transportation purposes or	140
from a nonroad engine or nonroad vehicle as defined in the	141
"Clean Air Act," 42 U.S.C. 7550.	142
(2) "Stationary source" includes any building, structure,	143
facility, or installation described in division (I)(1) of this	144
section that is offline for an indefinite period of time for	145
purposes of being revamped or renewed.	146
(T) How have the colling and t	1 4 =
(J) "Subcontractor" means any person who undertakes	147
construction at a stationary source under a contract with any	148
person other than an owner or operator.	149
Sec. 4145.02. (A) An individual shall do both of the	150
following to be considered a class A skilled journeyperson:	151
	1 - 0
(1) Graduate from a registered apprenticeship program;	152
(2) Complete a thirty-hour training course in safety and	153
health hazard recognition and prevention approved by the	154
occupational safety and health administration of the United	155
States department of labor.	156
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(B) An individual shall do both of the following to be	157
<pre>considered a class B skilled journeyperson:</pre>	158
(1) Acquire at least ten thousand hours of experience in	159

the occupation or trade in which the individual is providing or	160
assigned to provide construction services at a stationary	161
source;	162
(2) Complete a thirty-hour training course in safety and	163
health hazard recognition and prevention approved by the	164
occupational safety and health administration of the United	165
States department of labor.	166
Sec. 4145.03. (A) An owner or operator that enters into a	167
contract on and after the effective date of this section for	168
construction services at a stationary source shall do both of	169
<pre>the following:</pre>	170
(1) Engage only a contractor that complies with division	171
(B) of this section;	172
(2) Require, in the contract that the owner or operator	173
enters into with the contractor, that the contractor shall use,	174
with respect to any subcontractor needed for the contract, a	175
subcontractor that complies with division (B) of this section.	176
(B)(1) Except as provided in division (B)(4) of this	177
section, a contractor that provides construction services at a	178
stationary source pursuant to a contract entered into on and	179
after the effective date of this section with an owner or	180
operator, and a subcontractor that provides construction	181
services with respect to that contract on behalf of the	182
contractor, shall use only the following individuals:	183
(a) Class A skilled journeypersons;	184
(b) Class B skilled journeypersons;	185
(c) Apprentices.	186
(2) The contractor or subcontractor shall follow the	187

following implementation schedule regarding the proportion of	188
the contractor's or subcontractor's employees performing those	189
construction services who shall be class A skilled	190
journeypersons, apprentices, or both:	191
(a) Beginning on January 1, 2022, at least forty-five per	192
<pre>cent;</pre>	193
(b) Beginning on January 1, 2023, at least sixty-five per	194
<pre>cent;</pre>	195
(c) Beginning on January 1, 2024, at least eighty per	196
<pre>cent.</pre>	197
(3) The contractor or subcontractor shall employ class B	198
skilled journeypersons for the remaining portion of the	199
contractor's or subcontractor's employees performing	200
construction services who are not required to be class A skilled	201
journeypersons or apprentices pursuant to division (B)(2) of	202
this section.	203
(4) An individual employed by a contractor or	204
subcontractor is not required to be a class A or class B skilled	205
journeyperson or apprentice pursuant to division (B)(1) of this	206
section if both of the following apply:	207
(a) The individual is employed as a project	208
superintendent, project manager, engineer, or clerical employee;	209
(b) The individual does not perform construction services.	210
(C) (1) Divisions (A) and (B) of this section do not apply	211
under either of the following circumstances:	212
(a) When a contractor or subcontractor requests qualified	213
individuals from a hiring hall or referral system that	214
dispatches individuals who are class A or class B skilled	215

journeypersons or apprentices, and because of workforce	216
shortages, the contractor or subcontractor is unable to obtain	217
sufficient qualified individuals within forty-eight hours after	218
the request;	219
(b) An emergency during or after which compliance is	220
impracticable, including an emergency that requires immediate	221
action to prevent imminent harm to public health, public safety,	222
or the environment.	223
(2) For purposes of division (C)(1)(a) of this section,	224
Saturdays, Sundays, and legal holidays shall not be used in	225
<pre>calculating time.</pre>	226
Sec. 4145.04. If an owner or operator believes that a	227
contractor or subcontractor is failing or has failed to comply	228
with the implementation schedule established under division (B)	229
of section 4145.03 of the Revised Code, the owner or operator	230
shall, not later than seven days after the date on which the	231
owner or operator first believes a contractor or subcontractor	232
is failing or has failed to comply with the implementation	233
schedule, provide written notice of the alleged noncompliance to	234
the director of commerce, and shall include both of the	235
following in the notice:	236
(A) A summary that describes the contractor's or	237
subcontractor's alleged noncompliance, including the applicable	238
dates of noncompliance and degree to which the contractor or a	239
subcontractor has allowed the proportion of the contractor's or	240
subcontractor's employees performing construction services to	241
deviate from the implementation schedule;	242
(B) The corrective actions, if any, that the owner or	243
operator has taken to ensure the contractor or subcontractor is	244

complying with the implementation schedule, and the date by	245
which the owner or operator expects the contractor or	246
subcontractor to comply with the implementation schedule.	247
Sec. 4145.05. (A) Each contractor and subcontractor	248
subject to section 4145.03 of the Revised Code shall maintain	249
the following records for a period of not less than three years	250
after the date on which construction services under the contract	251
<pre>have been completed:</pre>	252
(1) Payroll records for all individuals who performed	253
<pre>construction services;</pre>	254
(2) Apprenticeship records;	255
(3) Copies of the reports that each contractor and	256
subcontractor is required to submit under sections 4145.06 and	257
4145.07 of the Revised Code.	258
(B) The director of commerce or attorney general may	259
request to inspect the records described in division (A) of this	260
section at any time during the time period described in that	261
division. A contractor or subcontractor shall make the records	262
available not later than seven days from the date the director_	263
or attorney general makes a request under this division.	264
Sec. 4145.06. (A) A contractor subject to section 4145.03	265
of the Revised Code shall prepare a compliance report at the end	266
of each calendar quarter during which the contractor provided	267
construction services at a stationary source. The contractor	268
shall submit each report to the director of commerce not later	269
than thirty days after the date on which the calendar quarter	270
ends. The contractor shall submit a final report to the director	271
not later than thirty days after construction services under the	272
contract are completed. The contractor shall include in each	273

report all of the following information with respect to that	274
<pre>calendar quarter:</pre>	275
(1) The name and address of the contractor;	276
(2) The name and title of the individual preparing the	277
report on behalf of the contractor;	278
(3) The name and address of the owner or operator of the	279
stationary source at which construction services were performed;	280
(4) The name of the project and project number, if any;	281
(5) The total dollar value of the contract;	282
(6) The name and address of all subcontractors involved in	283
providing construction services at the stationary source;	284
(7) The total number of class A and class B skilled	285
journeypersons and apprentices who performed construction	286
services;	287
(8) The name and address of each registered apprenticeship	288
program from which class A skilled journeypersons graduated and	289
each registered apprenticeship program that provided training to	290
apprentices;	291
(9) Certification that the contractor has complied with	292
division (B) of section 4145.03 of the Revised Code;	293
(10) All of the following:	294
(a) The total number of class A skilled journeypersons who	295
performed construction services;	296
(b) The total number of class B skilled journeypersons who	297
<pre>performed construction services;</pre>	298
(c) The total number of apprentices who performed	299

<pre>construction services;</pre>	300
(d) The numbers described in divisions (A)(10)(a) to (c)	301
of this section represented as a per cent of the total number of	302
class A and class B skilled journeypersons and apprentices who	303
performed construction services.	304
(B) At the time a contractor submits a report to the	305
director under division (A) of this section, the contractor	306
shall provide a copy of the report to the owner or operator of	307
the stationary source at which the contractor is providing	308
construction services.	309
Sec. 4145.07. Each subcontractor subject to section	310
4145.03 of the Revised Code shall prepare a workforce report at	311
the end of each calendar quarter during which the subcontractor	312
provided construction services at a stationary source. The	313
subcontractor shall submit each report to the contractor not	314
later than ten days after the date on which the calendar quarter	315
ends. The subcontractor shall include in each report all of the	316
following information regarding individuals who performed	317
<pre>construction services during that calendar quarter:</pre>	318
(A) The total number of class A and class B skilled	319
journeypersons and apprentices who performed construction	320
services;	321
(B) The total number of class A skilled journeypersons and	322
apprentices who performed construction services;	323
(C) The total number of class B skilled journeypersons who	324
performed construction services and the means by which the	325
subcontractor verified that each class B skilled journeyperson	326
has satisfied the experience requirement under division (B) (1)	327
of section 4145.02 of the Revised Code;	328

(D) The name and address of each registered apprenticeship	329
program from which class A skilled journeypersons graduated and	330
each registered apprenticeship program that provided training to	331
apprentices.	332
Sec. 4145.08. (A) No owner or operator shall do any of the	333
<pre>following:</pre>	334
(1) Fail to comply with division (A) of section 4145.03 of	335
the Revised Code;	336
(2) Fail to comply with the notice requirement under	337
section 4145.04 of the Revised Code within the time period	338
specified in that section;	339
(3) Submit a written notice as described under section	340
4145.04 of the Revised Code that includes false or inaccurate	341
<u>information</u> .	342
(B) No contractor or subcontractor shall do any of the	343
<pre>following:</pre>	344
(1) Fail to comply with division (B) of section 4145.03 of	345
the Revised Code;	346
(2) Fail to maintain the records specified in section	347
4145.05 of the Revised Code for the time period specified in	348
<pre>that section;</pre>	349
(3) Fail to make available the records specified in	350
section 4145.05 of the Revised Code within the time period	351
specified in that section;	352
(4) Fail to comply with the reporting requirements under	353
sections 4145.06 and 4145.07 of the Revised Code;	354
(5) Submit a report under section 4145.06 or 4145.07 of	355

the Revised Code that includes false or inaccurate information.	356
Sec. 4145.09. (A) Any person who believes an owner or	357
operator, contractor, or subcontractor has violated section	358
4145.08 of the Revised Code may file a written complaint with	359
the director of commerce. On receiving a complaint, the director	360
may investigate the alleged violation. The director also may	361
investigate whether an owner or operator, contractor, or	362
subcontractor has violated section 4145.08 of the Revised Code	363
on the director's own initiative.	364
(B) (1) If the director determines after an investigation	365
that reasonable grounds exist that an owner or operator,	366
contractor, or subcontractor has violated section 4145.08 of the	367
Revised Code, the director shall proceed in accordance with the	368
notice and hearing requirements prescribed in Chapter 119. of	369
the Revised Code.	370
(2) After a hearing conducted under Chapter 119. of the	371
Revised Code, if the director determines an owner or operator,	372
contractor, or subcontractor has violated section 4145.08 of the	373
Revised Code, the director shall order the offending owner or	374
operator, contractor, or subcontractor to remedy the violation.	375
The offending owner or operator, contractor, or subcontractor	376
shall remedy the violation not later than thirty days after the	377
date on which the director issues the order.	378
(C) An offending owner or operator, contractor, or	379
subcontractor that fails to remedy a violation within the time	380
period specified in division (B)(2) of this section is subject	381
to the civil penalty specified in section 4145.10 of the Revised	382
Code. The attorney general, on behalf of the director, may bring	383
a civil action in any court of competent jurisdiction to enforce	384
the violation. If the attorney general is the prevailing party	385

in a civil action brought under this division, the court shall	386
award to the attorney general court costs and reasonable	387
attorney's fees. A civil penalty assessed under section 4145.10	388
of the Revised Code and any court costs and attorney's fees	389
recovered shall be paid into the state treasury to the credit of	390
the industrial compliance operating fund created under section	391
121.084 of the Revised Code.	392
Sec. 4145.10. Subject to section 4145.09 of the Revised	393
Code, an owner or operator, contractor, or subcontractor that	394
violates section 4145.08 of the Revised Code is subject to a	395
civil penalty of not more than ten thousand dollars for each	396
violation. Each day during which a violation of division (A)(1)	397
or (B)(1) of section 4145.08 of the Revised Code occurs	398
constitutes a separate violation.	399
Sec. 4145.11. (A) The director of commerce may adopt rules	400
in accordance with Chapter 119. of the Revised Code as necessary	401
to administer and enforce this chapter.	402
(B) The director shall do both of the following:	403
(1) Create and make available a form on which a contractor	404
shall include the information specified in section 4145.06 of	405
the Revised Code;	406
(2) Make publicly available on the department of	407
commerce's internet web site each compliance report a contractor	408
submits to the director under section 4145.06 of the Revised	409
Code not later than thirty days after the date on which the	410
contractor submits the report to the director.	411
Sec. 4145.12. The purpose of this chapter is to protect	412
public health and safety by requiring minimum training and skill	413
standards for persons performing construction services on	414

certain high hazard facilities where inferior or faulty work	415
practices can pose serious risks to the public and result in	416
potentially catastrophic consequences.	417
Section 2. That existing sections 121.083 and 121.084 of	418
the Revised Code are hereby repealed.	419
Section 3. This act shall be known as the High Hazard	420
Training Certification (HHTC) Act.	421
Section 4. The General Assembly finds the following:	422
(A) The General Assembly has long recognized our State	423
Government's duty to protect the public health, safety and	424
welfare. This Act falls within these powers and duties by	425
requiring certain training and qualification standards for	426
contractors performing construction work on high hazard	427
facilities.	428
(B) Public health and safety protections enacted under the	429
State's police powers have been repeatedly upheld by the courts.	430
For example, the Ohio Supreme Court has pointedly recognized	431
that the "[p]rotection and preservation of public health are	432
among the prime governmental concerns and functions of the state	433
as a sovereignty." State ex. rel. Mowrer v. Underwood, 137 Ohio	434
St. 1 (1940) (upholding state legislation relating to regulation	435
of health districts); see also State v. Martin, 168 Ohio St. 37	436
(1958) (upholding state regulation of well drilling to protect	437
water supply as a reasonable police power function). Federal	438
courts likewise have protected the sanctity of state police	439
powers for the sake of both public health and worker safety.	440
See Associated Builders & Contractors v. Michigan Department of	441
Labor and Economic Growth, 543 F.3d 275 (6th Cir. 2008)	442
(upholding apprenticeship training requirements in state trade	443

licensing law under state's police powers).	444
(C) In this Act, the General Assembly recognizes that use	445
of its police power is necessary to protect public health and	446
worker safety by requiring adherence to certain training and	447
certification standards by contractors performing work on high	448
hazard facilities, where faulty or inferior work practices can	449
pose serious risks to workers at these facilities and the	450
general public, resulting in potentially catastrophic	451
consequences.	452
(D) There are compelling grounds and public policy	453
justifications for this Act. Construction is an inherently	454
dangerous industry, wherein errors in project planning or	455
execution can result in serious health and safety risks. Geetha	456
M. Waehrer, Xiuwen S. Dong, Ted Miller, Elizabeth Haile, and	457
Yurong Men, Costs of Occupational Injuries in Construction in	458
the United States, 39 Accident Analysis and Prevention 1258	459
(2007) (construction is a high risk industry and accounts for	460
disproportionate share of work-related injuries).	461
(E) The risks inherent in construction are substantially	462
higher in high hazard facilities that handle dangerous materials	463
or substances insofar as unsafe work practices may cause	464
explosions, chemical spills and other hazardous conditions,	465
which may expose workers and the public, especially populations	466
in nearby communities, to dangerous conditions that can lead to	467
serious bodily injuries and death.	468
(F) Congress has addressed these dangers by enacting	469
section 112(r) of the "Clean Air Act," 42 U.S.C. 7412(r), under	470
which the U.S. Environmental Protection Agency requires owners	471
and operators of such facilities to implement "Risk Management	472
Plans" ("RMP") to prevent public health threats presented by	473

such facilities. See also 40 C.F.R. Part 68 and 59 Fed. Reg.	474
4233 and 4478.	475
(G) It has been well documented that petroleum refineries,	476
in particular, present acute risks of workplace accidents. The	477
U.S. Department of Labor, Occupational Safety and Health	478
Administration (OSHA) found that, since the agency began	479
monitoring safety management at these facilities in 1992, "no	480
other industry sector has had as many fatal or catastrophic	481
incidents related to the release of highly hazardous chemicals .	482
as petroleum refining " See Occupational Safety and	483
Health Administration, OSHA 3918-08 2017, Process Safety	484
Management for Petroleum Refineries (2017).	485
(H) In an attempt to address these risks, OSHA issued	486
regulations in 1992 for high hazard facilities that require	487
owners and operators to follow certain procedures for evaluating	488
safety performance of contractors and established requirements	489
for safety programs to ensure that contractor employees are	490
properly trained. See 29 C.F.R. 1910.119.	491
(I) In 2017, OSHA announced a National Emphasis Program	492
for inspecting facilities with highly hazardous chemicals. The	493
directive detailed the numerous fatal and/or catastrophic safety	494
incidents that occurred just since 2010, including the	495
following:	496
(1) "A heat exchanger catastrophically ruptured, which	497
caused an explosion and fire killing seven workers."	498
(2) "A crew was realigning pumps due to a pump seal leak	499
in an isomerization unit when flammable materials were released,	500
formed a vapor cloud and ignited. The fire killed one worker and	501
hospitalized three with burn injuries."	502

(3) "An explosion killed two workers attempting to light a	503
boiler at a fluid catalytic cracking unit."	504
(4) "Ignition of a release of flammable materials killed	505
one contract worker attempting to install a blind flange on a	506
knockout drum."	507
(5) "An eight-inch-diameter pipe catastrophically	508
ruptured, releasing flammable, high-temperature light gas oil,	509
which then formed a large vapor cloud that ignited. The ensuing	510
explosion and fire caused minor injuries to six workers and	511
hospitalized approximately 20 residents of the community near	512
the refinery."	513
Occupational Safety and Health Administration, Directive	514
No. CPL 03-00-021, OSHA Instruction, PSM Covered Chemical	515
Facilities National Emphasis Program (January 17, 2017).	516
(J) A review of the most recently available OSHA data	517
reveals that unacceptable levels of risk persist in this sector.	518
Specifically, there has been a recent surge in "serious" OSHA	519
safety violations at petroleum refineries—an increase of 78% in	520
2019 over the previous year. Federal law defines a "serious"	521
safety violation as one having a "substantial probability [of	522
causing] death or serious physical harm" that an employer knew	523
or should have known to exist. Section 17 of the "Occupational	524
Safety and Health Act of 1970," 29 U.S.C. 666.	525
(K) The other main federal agency that oversees the high	526
hazard sector of the construction industry is the U.S. Chemical	527
Safety and Hazard Investigation Board (CSB), which is	528
responsible for investigating serious accidents at high hazard	529
facilities. Examples of recent CSB investigations include the	530
following:	531

(1) Delaware City Refining Company Flash Fire (Delaware	532
City, DE) - On November 29, 2015 an employee suffered severe	533
burns to the face when flammable material was inadvertently	534
released into the plant sewer system. United States Chemical	535
Safety and Hazard Investigation Board, Safety Bulletin No. 2015-	536
01-I-DE, Key Lessons for Preventing Incidents When Preparing	537
Process Equipment for Maintenance (2017).	538
(2) ExxonMobil Refinery Chemical Release and Fire (Baton	539
Rouge, LA) - On November 22, 2016 four workers at an oil	540
refinery suffered severe burns when isobutane gas that had been	541
inadvertently released ignited. United States Chemical Safety	542
and Hazard Investigation Board, Safety Bulletin No. 2016-02-I-	543
LA, Key Lessons from the ExxonMobil Baton Rouge Refinery	544
Isobutane Release and Fire (2017).	545
(3) ExxonMobil Refinery Explosion (Torrance, CA) - On	546
February 18, 2015, a pollution mitigation device exploded during	547
a time when ExxonMobil had attempted to isolate the equipment so	548
that maintenance could be performed. Debris from the explosion	549
nearly hit tanks full of hydrofluoric acid, a highly toxic	550
substance that can cause serious injury or death at just 30	551
parts per million. United States Chemical Safety and Hazard	552
Investigation Board, Investigation Report No. 2015-02-I-CA,	553
ExxonMobil Torrance Refinery (2017).	554
(L) Over the past several years, CSB has conducted several	555
investigations at high hazard facilities in which it	556
categorically determined that "insufficient safety requirements	557
for contractor selection and oversight were found to be causal"	558
to the accidents in question." United States Chemical Safety and	559
Hazard Investigation Board, Contractor Safety Digest, The	560

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Importance of Contractor Selection and Oversight (2018).

(M) In addition to the considerable challenges highlighted	562
above, safety threats are likely to increase due to critical,	563
unprecedented craft labor shortages. These conditions underscore	564
the need for greater scrutiny over contractor qualifications	565
generally and especially in the high hazard sector. Ben DuBose,	566
ECF '16: Energy Contractors Need Newcomers to Ease Labor	567
Shortage, Hydrocarbon Processing (March 1, 2016) (craft shortage	568
primary factor in 65% failure rate among mega-projects in Gulf	569
Coast Region); Gavin Aronsen, Labor Shortage Delays DuPont	570
Plant Completion, Ames Tribune (January 9, 2015) (shortage of	571
qualified workers delayed the completion of a \$200 million	572
DuPont ethanol plant in Iowa).	573

- (N) Acting in response to these growing risks and related concerns, Washington State, California and New Jersey have enacted legislation to require contractors on certain high hazard facilities, including petroleum refineries, to require construction contractors to ensure their craft workforce meets minimum apprenticeship training and experience requirements as a means of ensuring the use of properly trained, safety-conscious employees at these facilities.
- (O) These statutes are based on growing concerns regarding the eminent dangers of the petroleum refinery sector, as well as extensive public policy findings, which recognize that established apprenticeship training programs in the construction industry are most reliable and effective means for ensuring proper qualifications of craft labor personnel due to the indepth skill and safety training they provide.
- (P) Widespread recognition of the value of apprenticeship
 training generally has also promoted at least 14 states have
 passed incorporating critical apprenticeship training components
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into their public works programs. See 2020 Va. Acts Chapter 176;	592
Colo. Rev. Stat. Ann. 24-92-115; Title 26 Me. Rev. Stat. 3501	593
and 3502; Assembly No. 3666 of the 218th New Jersey Legislature;	594
N.J. Ann. Stat. 52:38-5; N.M. Stat. Ann. 13-4D-4; Wash. Rev.	595
Code 39.04.320; Ind. Code 5-30-5-3; Md. State Finance and	596
Procurement Code 17-601 to 17-606 and 17-6A-06; Wyo. Stat. 16-6-	597
902; Chapter 30 Ill. Comp. Stat. 500/30-22; R.I. Gen. Laws 37-	598
13-3.1; Title 8 Cal. Code of Reg. 230.1; Cal. Labor Code 1777.5;	599
Haw. Rev. Stat. 103-55.6; N.Y. Consolidated Law Service, Labor	600
Law 816-b; and Code of Md. Reg. 01.01.2013.05.	601
(Q) The apprenticeship training provisions relate to skill	602
and safety training standards developed for craft labor	603
apprenticeship programs established under the "National	604
Apprenticeship Act of 1937," 29 U.S.C. 50, et seq.	605
Apprenticeship training is a system in which workers are fully	606
trained through organized, formally registered apprenticeship	607
standards, designed in accordance with established quality,	608
safety and performance standards approved and monitored by the	609
U.S. Department of Labor and state labor agencies, including the	610
Ohio Department of Job and Family Services. United States	611
Department of Commerce and Case Western Reserve University, The	612
Benefits and Costs of Apprenticeship: A Business Perspective	613
(2016) (apprenticeship programs are widely supported by	614
contractors and other employers as highly cost-effective due to	615
higher productivity of trained workers, improved safety,	616
improved project quality, more reliable project staffing, and	617
reduction in employee turnover).	618
(R) In order to be approved under applicable federal	619
regulations, an apprenticeship program must have an organized,	620
written plan that contains provisions addressing "safety	621

training for apprentices on the job and in related instruction"

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in addition to numerous other standards for acquiring critical	623
skills in a given trade. Apprentices receive a combination of	624
extensive on-the-job training, combined with classroom and shop	625
instruction, and must pass specific skill-level tests after each	626
year before they can proceed to the next year in programs that	627
typically involve a 3 to 5 curriculum. See 29 C.F.R. 29.5.	628
(S) In educating workers in the construction industry, the	629
training used to develop skills in the respective trades is	630
inextricably linked to safety training since performing many	631
functions or tasks safely requires that the work correctly.	632
Executing tasks in construction properly also requires that they	633
be carried out in accordance with a number of complex industry	634
codes and standards. See, e.g., Farzad Minooei, Towards a	635
Deeper Understanding of the U.S. Workforce Development System	636
in the Construction Industry (2018) (Ph.D. dissertation,	637
University of Colorado) ("A skilled workforce is essential to	638
safety, productivity and sustainability of construction and	639
maintenance activities"). Conversely, the use of workers	640
with inadequate training can seriously undermine project safety.	641
See, e.g., Hossein Karimi, Timothy R.B. Taylor, Paul M. Goodrum,	642
and Cidambi Srinivasan, Quantitative Analysis of the Impact of	643
Craft Worker Availability on Construction Project Safety	644
Performance, 16 Construction Innovation 307 (2016) ("When a	645
project is executed by less qualified craft workers, increases	646
in human errors, less familiarity with safety procedures and	647
legislations and inadequate safety training will be the factors	648
that adversely influence safety performance.").	649
(T) In view of these factors, the General Assembly finds	650
that the use of apprenticeship training standards on	651
construction projects for high hazard facilities provides the	652

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most effective means for addressing growing public safety

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threats and should be incorporated into the project planning	654
system used for these facilities.	655