

Calendar No. 680

117TH CONGRESS
2^D SESSION

H. R. 7777

[Report No. 117-281]

IN THE SENATE OF THE UNITED STATES

JUNE 22, 2022

Received; read twice and referred to the Committee on Homeland Security and
Governmental Affairs

DECEMBER 19, 2022

Reported by Mr. PETERS, with an amendment

[Strike out all after the enacting clause and insert the part printed in italic]

AN ACT

To amend the Homeland Security Act of 2002 to authorize the Cybersecurity and Infrastructure Security Agency to establish an industrial control systems cybersecurity training initiative, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

1 **SECTION 1. SHORT TITLE.**

2 This Act may be cited as the “Industrial Control Sys-
3 tems Cybersecurity Training Act”.

4 **SEC. 2. ESTABLISHMENT OF THE INDUSTRIAL CONTROL**
5 **SYSTEMS TRAINING INITIATIVE.**

6 (a) **IN GENERAL.**—Subtitle A of title XXII of the
7 Homeland Security Act of 2002 (6 U.S.C. 651 et seq.)
8 is amended by adding at the end the following new section:

9 **“SEC. 2220D. INDUSTRIAL CONTROL SYSTEMS CYBERSECU-**
10 **RITY TRAINING INITIATIVE.**

11 **“(a) ESTABLISHMENT.**—

12 **“(1) IN GENERAL.**—The Industrial Control Sys-
13 tems Cybersecurity Training Initiative (in this sec-
14 tion referred to as the ‘Initiative’) is established
15 within the Agency.

16 **“(2) PURPOSE.**—The purpose of the Initiative
17 is to develop and strengthen the skills of the cyber-
18 security workforce related to securing industrial con-
19 trol systems.

20 **“(b) REQUIREMENTS.**—In carrying out the Initiative,
21 the Director shall—

22 **“(1) ensure the Initiative includes—**

23 **“(A) virtual and in-person trainings and**
24 **courses provided at no cost to participants;**

1 “(B) trainings and courses available at dif-
2 ferent skill levels, including introductory level
3 courses;

4 “(C) trainings and courses that cover
5 cyber defense strategies for industrial control
6 systems, including an understanding of the
7 unique cyber threats facing industrial control
8 systems and the mitigation of security
9 vulnerabilities in industrial control systems
10 technology; and

11 “(D) appropriate consideration regarding
12 the availability of trainings and courses in dif-
13 ferent regions of the United States; and

14 “(2) engage in—

15 “(A) collaboration with the National Lab-
16 oratories of the Department of Energy in ac-
17 cordance with section 309;

18 “(B) consultation with Sector Risk Man-
19 agement Agencies; and

20 “(C) as appropriate, consultation with pri-
21 vate sector entities with relevant expertise, such
22 as vendors of industrial control systems tech-
23 nologies.

24 “(e) REPORTS.—

1 “(1) IN GENERAL.—Not later than one year
2 after the date of the enactment of this section and
3 annually thereafter, the Director shall submit to the
4 Committee on Homeland Security of the House of
5 Representatives and the Committee on Homeland
6 Security and Governmental Affairs of the Senate a
7 report on the Initiative.

8 “(2) CONTENTS.—Each report under para-
9 graph (1) shall include the following:

10 “(A) A description of the courses provided
11 under the Initiative.

12 “(B) A description of outreach efforts to
13 raise awareness of the availability of such
14 courses.

15 “(C) Information on the number and de-
16 mographics of participants in such courses, in-
17 cluding by gender, race, and place of residence.

18 “(D) Information on the participation in
19 such courses of workers from each critical in-
20 frastructure sector.

21 “(E) Plans for expanding access to indus-
22 trial control systems education and training, in-
23 cluding expanding access to women and under-
24 represented populations, and expanding access
25 to different regions of the United States.

1 “(F) Recommendations on how to
2 strengthen the state of industrial control sys-
3 tems cybersecurity education and training.”

4 (b) CLERICAL AMENDMENT.—The table of contents
5 in section 1(b) of the Homeland Security Act of 2002 is
6 amended by inserting after the item relating to section
7 2220C the following new item:

“Sec. 2220D. Industrial Control Systems Cybersecurity Training Initiative.”

8 **SECTION 1. SHORT TITLE.**

9 *This Act may be cited as the “Industrial Control Sys-*
10 *tems Cybersecurity Training Act”.*

11 **SEC. 2. ESTABLISHMENT OF THE INDUSTRIAL CONTROL**
12 **SYSTEMS TRAINING INITIATIVE.**

13 (a) *IN GENERAL.*—*Subtitle A of title XXII of the*
14 *Homeland Security Act of 2002 (6 U.S.C. 651 et seq.) is*
15 *amended by adding at the end the following new section:*

16 **“SEC. 2220E. INDUSTRIAL CONTROL SYSTEMS CYBERSECU-**
17 **RITY TRAINING INITIATIVE.**

18 “(a) *ESTABLISHMENT.*—

19 “(1) *IN GENERAL.*—*The Industrial Control Sys-*
20 *tems Cybersecurity Training Initiative (in this sec-*
21 *tion referred to as the ‘Initiative’) is established with-*
22 *in the Agency.*

23 “(2) *PURPOSE.*—*The purpose of the Initiative is*
24 *to develop and strengthen the skills of the cybersecu-*

1 *riety workforce related to securing industrial control*
2 *systems.*

3 “(b) *REQUIREMENTS.—In carrying out the Initiative,*
4 *the Director shall—*

5 “(1) *ensure the Initiative includes—*

6 “(A) *virtual and in-person trainings and*
7 *courses provided at no cost to participants;*

8 “(B) *trainings and courses available at dif-*
9 *ferent skill levels, including introductory level*
10 *courses;*

11 “(C) *trainings and courses that cover cyber*
12 *defense strategies for industrial control systems,*
13 *including an understanding of the unique cyber*
14 *threats facing industrial control systems and the*
15 *mitigation of security vulnerabilities in indus-*
16 *trial control systems technology; and*

17 “(D) *appropriate consideration regarding*
18 *the availability of trainings and courses in dif-*
19 *ferent regions of the United States;*

20 “(2) *engage in—*

21 “(A) *collaboration with the Department of*
22 *Energy national laboratories in accordance with*
23 *section 309;*

24 “(B) *consultation with Sector Risk Manage-*
25 *ment Agencies; and*

1 “(C) as appropriate, consultation with pri-
2 vate sector entities with relevant expertise, such
3 as vendors of industrial control systems tech-
4 nologies; and

5 “(3) consult, to the maximum extent practicable,
6 with commercial training providers and academia to
7 minimize the potential for duplication of other train-
8 ing opportunities.

9 “(c) *REPORTS.*—

10 “(1) *IN GENERAL.*—Not later than 1 year after
11 the date of enactment of this section, and annually
12 thereafter, the Director shall submit to the Committee
13 on Homeland Security of the House of Representa-
14 tives and the Committee on Homeland Security and
15 Governmental Affairs of the Senate a report on the
16 Initiative.

17 “(2) *CONTENTS.*—Each report submitted under
18 paragraph (1) shall include the following:

19 “(A) A description of the courses provided
20 under the Initiative.

21 “(B) A description of outreach efforts to
22 raise awareness of the availability of such
23 courses.

24 “(C) The number of participants in each
25 course.

1 “(D) *Voluntarily provided information on*
2 *the demographics of participants in such courses,*
3 *including by gender, race, and place of residence.*

4 “(E) *Information on the participation in*
5 *such courses of workers from each critical infra-*
6 *structure sector.*

7 “(F) *Plans for expanding access to indus-*
8 *trial control systems education and training, in-*
9 *cluding expanding access to women and under-*
10 *represented populations, and expanding access to*
11 *different regions of the United States.*

12 “(G) *Recommendations on how to strength-*
13 *en the state of industrial control systems cyberse-*
14 *curity education and training.”.*

15 (b) *CLERICAL AMENDMENTS.—The table of contents in*
16 *section 1(b) of the Homeland Security Act of 2002 (Public*
17 *Law 107–296; 116 Stat. 2135) is amended—*

18 (1) *by moving the item relating to section 2220D*
19 *to appear after the item relating to section 2220C;*
20 *and*

21 (2) *by inserting after the item relating to section*
22 *2220D the following:*

“Sec. 2220E. *Industrial Control Systems Cybersecurity Training Initiative.*”.

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