

READINESS CHECKLIST



NRCA
PROCertification®

THERMOPLASTIC SYSTEMS INSTALLER



NRCA

NATIONAL ROOFING CONTRACTORS ASSOCIATION





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ProCertified™ Thermoplastic Systems Installer Readiness Checklist

This checklist is designed to help you determine your readiness to successfully complete the certification process and earn the NRCA ProCertified™ Thermoplastic Systems Installer certification. The items below are what every candidate is expected to know and be able to do after completing 24 months of thermoplastic system field installation experience. You must pass two exams to earn your installer certification: an online knowledge exam and hands-on performance exam. The tests can include any or all the knowledge, skills and abilities represented on this list.

An online exam tutorial and practice exam are available at www.nrca.net/procertification.

ITEM	√	ACTIVITY
Safety		
1	<input type="checkbox"/>	Actively participate in safety training and education programs and activities, such as: <ul style="list-style-type: none"> • Job-site toolbox talks • Sessions covering safety topics common to all roof system installations, such as: <ul style="list-style-type: none"> - Fall-protection systems (personal fall-arrest system, guardrails, warning lines, safety nets, etc.) - Ladder safety - Hazard communications (SDS, labels, signage, policy) - Personal protective equipment (PPE) - Electrical - Material handling - Tools and equipment - Fire safety - First aid - Other general health and safety topics relevant to roofing work • Sessions covering hazard exposures that are specific to thermoplastic system installations, such as: <ul style="list-style-type: none"> - PPE required when working with solvents, cleaners or adhesives - Fire and explosion hazards - Airborne contaminants; harmful vapors
2	<input type="checkbox"/>	Explain elements of a company safety program, including: <ul style="list-style-type: none"> • Major policies and procedures common to all company safety programs • The goals and purposes of a specific company safety program • Regularly contribute in discussions about improving workplace safety with supervisors and co-workers
3		Properly use and maintain fall-protection systems, including: <ul style="list-style-type: none"> • Personal fall-arrest system components, including: <ul style="list-style-type: none"> - Don and adjust harness - Connect lanyard, lifeline and anchor - Locate and install anchor devices • Correct setup of warning lines as directed; demonstrate proper warning line use • Correct setup and use of guardrails as directed • Explain general characteristics and use of safety nets

4	<input type="checkbox"/>	Select, inspect, set up, secure and use ladders to access rooftop work, including: <ul style="list-style-type: none"> • Not carry anything that could cause a worker lose balance while climbing a ladder • Maintain three points of contact while climbing a ladder
5	<input type="checkbox"/>	Select, inspect, use and maintain PPE, including: <ul style="list-style-type: none"> • Head protection • Eye protection • Hand and foot protection • Protective clothing • Hearing protection • Respiratory protection
6	<input type="checkbox"/>	Select, inspect, use and maintain electrical equipment, including: <ul style="list-style-type: none"> • Power generators • Extension cords • Ground fault circuit interrupters • Ability to explain lock-out/tag-out policy and procedure
7	<input type="checkbox"/>	Lift, move and place materials, tools and equipment during all phases of roofing operations, including: <ul style="list-style-type: none"> • Job setup • Tear-off • Installation • Job breakdown and clean up Seek assistance when handling heavy, bulky or oversize items
8	<input type="checkbox"/>	Visually inspect, use and maintain all tools and equipment, including: <ul style="list-style-type: none"> • Follow manufacturer's safety and usage instructions • Hand tools • Power tools • Power equipment • Only uses tools or equipment that he or she was trained to operate
Sheet Layout		
9	<input type="checkbox"/>	Move, set, align and unroll sheets as directed in sequenced locations with other crew members while maintaining sidelap alignment
10	<input type="checkbox"/>	Unroll and cut sheets around penetrations without damaging underlying sheets. Provide specified membrane extension up all vertical surfaces
11	<input type="checkbox"/>	Turn sheets up adjoining vertical surfaces and maintain specified extension; fold excess membrane tightly into inside corners to accommodate inside corner flashing best practices
12	<input type="checkbox"/>	Set, align and stagger sheet end laps at specified dimensions
Attachment		
13	<input type="checkbox"/>	Locate and drive fasteners and stress plates at specified locations using a hand-held and stand-up automated screw gun without overdriving, underdriving or stripping
14	<input type="checkbox"/>	Explain general characteristics and operate a heat-induction fastening systems
15	<input type="checkbox"/>	Apply sheet bonding adhesives at specified rates of coverage using a: <ul style="list-style-type: none"> • Hand or pneumatic-powered roller • Squeegee

		<ul style="list-style-type: none"> • Brush Pneumatic-powered sprayer
16	<input type="checkbox"/>	Apply sheet bonding adhesives at specified rates of coverage without contaminating seams, adjoining sheets or other building components
17	<input type="checkbox"/>	Score, slit and fully remove release films from self-adhering sheets without damaging underlying adhesive or reinforcement, tearing film or misaligning sheets
18	<input type="checkbox"/>	Fold sheets into adhesive and smooth in place as directed using brooms or weighted rollers and without air bubbles, wrinkles or creases
19	<input type="checkbox"/>	Spread aggregate ballast at the specified rate of coverage and as directed without damaging newly installed membrane
Seaming		
20	<input type="checkbox"/>	Clean sheet seams before welding
21	<input type="checkbox"/>	Efficiently operate a hand-held and robotic hot-air welder, including: <ul style="list-style-type: none"> • Adjust temperature setting • Insert nozzle into seam • Pre-weld inner part of seam • Pace welder speed to meet environmental conditions • Complete welds to specified widths without fishmouths or wrinkles • Use seam roller at correct angle • Adjust tracking to maintain straight runs • Maintain heat welding equipment, including cleaning nozzles • Allow heating elements to cool before powering down equipment • Consistently inspect seam with seam probe tool • Ensure required fire extinguishers are readily available
22	<input type="checkbox"/>	Complete roll end laps, including T-joint patches and edge sealants, as specified
Flashings		
23	<input type="checkbox"/>	Install membrane base flashings on all vertical walls and curbs, including use of pre-molded and field-fabricated outside or inside corners
24	<input type="checkbox"/>	Install membrane flashings with all embedded metal details and at raised perimeter edges
25	<input type="checkbox"/>	Install membrane flashings at all vent pipes or stacks using field-wrapped and pre-molded accessories
26	<input type="checkbox"/>	Install penetration pockets and fill with pourable sealant
27	<input type="checkbox"/>	Install membrane flashings at all roof drains
28	<input type="checkbox"/>	Install membrane base flashings at all through-wall and overflow scuppers
29	<input type="checkbox"/>	Install all types of membrane base flashing fasteners at correct spacings
30	<input type="checkbox"/>	Install most common types of sealants and caulks used in flashing detail applications
Housekeeping		
31	<input type="checkbox"/>	Maintain a high level of cleanliness of substrates, membrane seams and surfaces
32	<input type="checkbox"/>	Continuously remove all kinds of construction waste and debris from all rooftop surfaces, curbs, HVAC equipment, skylights or other surfaces during and after daily work

33	<input type="checkbox"/>	Immediately clean spills of adhesives, solvents or chemicals from membrane surfaces while wearing required PPE
34	<input type="checkbox"/>	Maintain roof drainage systems clear of any materials or debris that may block drainage
35	<input type="checkbox"/>	Wear and maintain clean footwear on all membrane surfaces
36	<input type="checkbox"/>	Do not cut, puncture or scrape finished membrane surfaces
37	<input type="checkbox"/>	Protect all finished membrane surfaces from damage, dirt and other construction debris throughout a project's duration
38	<input type="checkbox"/>	Mark and repair as directed any physical damage that may occur to newly installed membranes
39	<input type="checkbox"/>	Leave every completed roofing project clean and free of scrap, waste materials or other debris