

1 2	ACCREDITATION CRITERIA FOR INSPECTION PRACTICES OF METAL BUILDING ASSEMBLERS
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4	AC478
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7	September 2018
8	Effective January 1, 2019
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11	PREFACE
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13	The attached accreditation criteria have been issued to provide all interested parties with
14	guidelines on implementing performance features of the applicable standards referenced herein.
15	The criteria were developed and adopted following public hearings conducted by the
16	International Accreditation Service, Inc. (IAS), Accreditation Committee and are effective on the
17	date shown above. All accreditations issued or reissued on or after the effective date must
18 19	comply with these criteria. If the criteria are an updated version from a previous edition, solid vertical lines () in the outer margin within the criteria indicate a technical change or addition
20	from the previous edition. Deletion indicators $(\rightarrow)$ are provided in the outer margins where a
21	paragraph or item has been deleted if the deletion resulted from a technical change. These
22	criteria may be further revised as the need dictates.
23	· · · · · · · · · · · · · · · · · · ·
24	IAS may consider alternate criteria provided the proponent submits substantiating data
25	demonstrating that the alternate criteria are at least equivalent to the attached criteria and
26	otherwise meet applicable accreditation requirements.
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## ACCREDITATION CRITERIA FOR INSPECTION PRACTICES OF METAL BUILDING ASSEMBLERS

#### 33 **1. INTRODUCTION**

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   1.1. Scope: These criteria set forth the requirements for obtaining and maintaining International
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   Accreditation Service, Inc. (IAS), Inspection Practices for Metal Building Assemblers
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   37
   Accreditation Practices of Metal Building Assemblers.
- 39 1.2. Overview: Accredited entities complying with these criteria will have demonstrated that they
   40 have the personnel, organization, experience, knowledge, management procedures and
   41 commitment to assemble metal building systems in accordance with specified requirements. IAS 42 accredited inspection practices for metal building assembly operate under a documented safety
   43 and training program. An IAS-accredited inspection or special inspection agency conducts jobsite
   44 inspections to verify continued compliance with these criteria.
- 46 1.3. Normative and Reference Documents: Publications listed below refer to current editions
  47 (unless otherwise stated).
  48 1.3.1. AWS D1.1 and AWS D1.3, Structural Welding Code, published by the American
  - 1.3.1. AWS D1.1 and AWS D1.3, Structural Welding Code, published by the American Welding Society.
- 50 1.3.2. International Building Code<sup>®</sup>, published by the International Code Council.
  - 1.3.3. Ironworker Quality Construction Practices, Metal Building Systems Reference Manual.
- 521.3.4.ISO/IEC Standard 17020, Conformity assessment Requirements for the operation of53various types of bodies performing inspection.
- 541.3.5.Metal Buildings Institute, Quality and Craftsmanship Training Series, available through55http://www.mbcea.org/store/dvd-craftsmen-series.
- 561.3.6.OSHA Regulations (Standard 29 CFR), Part 1926 Safety and Health Regulations for57Construction.

### 59 2. DEFINITIONS

- 60 For the purposes of these accreditation criteria, the definitions given in ISO/IEC Standard 17020, and 61 the definitions that follow, apply:
- 62 2.1. Approved Fabricator: An established and qualified person, firm or corporation approved by the
   63 building official pursuant to the approved fabricator designation in Section 1702 of the
   64 International Building Code.
- 65 2.2. Assembler of Metal Building Systems: Erectors and contractors who are substantially
   66 engaged in the assembly of metal buildings under DOT Code: 801.381-010 AIMS Code: 0877.
   67 Further described as companies that erect metal building systems according to blueprint

68	specifications and engineering drawings, using hand tools, power tools, and hoisting equipment;
69	erect frames of buildings using a hoist; bolt steel frame members together; attach bracing and
70	insulating materials to framework; screw sheet metal roof and siding panels to framework; read
71	blueprints to determine location of items such as doors, windows, ventilators, and skylights and
72	install items using, wrenches and power drill; trim excess sheet metal using power saws, power
73	shears and tin snips; install corner, gable, rake, door and window trims; install gutters and
74	downs; and are responsible for related clean-up and waste management.
75	2.3. Bid Documents: Documents produced for the assembler's use to support the implementation
76	of the project. These documents include architectural drawings, site plan, manufacturer's
77	engineered drawings and manufacturer's erection drawings and blueprints.
78	2.4. Competent Person [29 CFR 1926.32(f)]: One who is capable of identifying existing and
79	predictable hazards in the surroundings or working conditions which are unsanitary, hazardous,
80	or dangerous to employees, and who has authorization to take prompt corrective measures to
81	eliminate them.
82	2.5. Contract Documents: Documents that describe the metal building system to be supplied in its
83	entirety for a given project. These documents include work orders, drawings, specifications, and
84	buyer sketches.
85	2.6. Corrective Action: Implemented action necessary to eliminate or reduce the root cause of an
86	identified problem.
87	2.7. Daily Jobsite Checklist: A checklist to be used as part of a routine to ensure items which are
88	identified as relevant are performed. The checklist(s) are a means of documenting relevant items
89	are covered each day (sometimes these are performed as part of a tool box meeting at the start
90	of each day); these checklists may also indicate the status of work being performed and can be
91	used for comparison to the schedule and/or to determine if inspections are required to be
92	performed.
93	2.8. Erection Tolerances: As set forth in "AISC Code of Standard Practice." Variations are to be
94	expected in the finished overall dimensions of structural steel frames. Such variations are
95	deemed to be within the limits of good practice when they do not exceed the cumulative effect of
96	rolling, fabricating and erection tolerances.
97	2.9. General Manager: The person occupying the highest position of authority within a facility's
98	organization.
99	2.10. Job Safety Analysis (JSA): One of the risk assessment tools used to identify and control
100	workplace hazards. A JSA is a second tier risk assessment with the aim of preventing personal
101	injury to a person, or their colleagues, and any other person passing or working adjacent,
102	above or below. JSAs are also known as Activity Hazard Analysis (AHA), Job Hazard Analysis
103	(JHA) and Task Hazard Analysis (THA).
104	2.11. Jobsite-Specific Plan: As a minimum, such a plan should consider the following elements:

105	2.11.1. The sequence of erection activity, developed in coordination with the controlling
106	contractor which includes the following: material deliveries, material staging and
107	storage, and coordination with other trades and construction activities.
108	2.11.2. A description of the crane and derrick selection and placement procedures, if required,
109	including the following: site preparation; path for overhead loads; and critical lifts,
110	including rigging supplies and equipment.
111	2.11.3. A description of steel erection activities and procedures, including the following:
112	stability considerations requiring temporary bracing and guying; erection bridging
113	terminus point; anchor rod (anchor bolt) notifications regarding repair, replacement and
114	modifications; columns and beams (including joists and purlins); connections; decking;
115	and ornamental and miscellaneous iron,
116	2.11.4. A description of the fall protection procedures that will be used to comply with OSHA 29
117	CFR § 1926.760.
118	2.11.5. A description of the procedures that will be used to comply with OSHA 29 CFR §
119	1926.758, Systems-engineered metal buildings.
120	2.11.6. A description of the special procedures required for hazardous nonroutine tasks.
121	2.11.7. A certification for each employee who has received training for performing steel
122	erection operations as required by OSHA 29 CFR § 1926.761.
123	2.11.8. A list of the qualified and competent persons which also includes their credentials.
124	2.11.9. A description of the procedures that will be utilized in the event of rescue or emergency
125	response.
126	2.11.10. The identification of the site and project signed and dated by the qualified person(s)
127	responsible for its preparation and modification.
128	2.11.11. A site-specific plan may also be called a jobsite-specific plan, a site-specific safety
129	plan and a site-specific project plan.
130	2.12. Journeyworker - Assembler of Metal Building Systems: A worker who has completed a
131	registered apprenticeship program for Assembler, Metal Building Systems or who can give
132	demonstrable proof of a minimum of four years' experience in metal building assembly,
133	satisfactory completion of the MBI Quality and Craftsmanship Training Series and
134	training/certification in the following:
135	2.12.1. OSHA 10
136	2.12.2. Rigging 1
137	2.12.3. Hot Work Training
138	2.12.4. Rough Terrain Forklift Safety
139	2.12.5. Equipment Qualified Operator
140	2.12.6. Aerial Work Platform Safety

141 2.13. Management System: A set of interrelated or interacting elements that metal building 142 assemblers use to direct, control and coordinate how policies are implemented and objectives 143 are achieved. 144 2.14. **MBCEA**: Metal Building Contractors and Erectors Association. 145 2.15. **MBI**: Metal Buildings Institute. 146 2.16. MBMA: Metal Building Manufacturers Association. 147 2.17. Metal Building Systems Manufacturer: An entity that may be a company, division, subsidiary 148 or similar organization that designs and manufactures a metal building system which consists of 149 an integrated set of components and assemblies, including, but not limited to, frames that are 150 primary structural steel members, secondary members that are cold-formed steel and steel 151 joists, and roof and wall cladding components, specifically designed to support and transfer 152 loads and provide a complete or partial building shell. 153 2.18. **On-the-job Training**: Training that allows employees to learn by performing a specific job or 154 task. The employee will perform the job while working under the supervision of an experienced 155 employee who has been properly trained to perform the task; this can be structured by using 156 hands-on application supported by classroom-type instruction. The employee uses the regular 157 or existing tools, machines, documents, equipment, knowledge, and skills necessary to learn to 158 effectively perform the task at hand. 159 2.19. **OSHA:** Occupational Safety and Health Administration, a federal agency of the United States 160 that regulates workplace safety and health to assure safe and healthful working conditions for 161 working men and women by setting and enforcing standards and by providing training, 162 outreach, education and assistance. 163 2.20. Procedure: An implemented and written document that describes who does what, when, 164 where, why and how. 165 2.21. Product: Result of activities or processes. 166 2.22. **Project:** A process consisting of a set of coordinated and controlled activities undertaken to 167 achieve customer requirements. 168 2.23. Qualified Person [29 CFR 1926.32(m)]: One who, by possession of a recognized degree, 169 certificate, or professional standing, or who by extensive knowledge, training, and experience, 170 has successfully demonstrated his ability to solve or resolve problems relating to the subject 171 matter, the work, or the project. 172 2.24. Quality Assurance: Measurable systematic actions to assure confidence that the 173 implementation of planned activities results in meeting objectives, goals and contract 174 documents. 175 2.25. Quality Control: The act of examination, testing or measurement which verifies processes and 176 services or verifies documents conform to specified criteria. 177 2.26. **Repair:** Action taken to render a member or component acceptable for the intended use.

- 178 2.27. Safety Manager: A safety professional, designated by management, who has demonstrated 179 competence in establishing, maintaining and implementing a safety program with consistent 180 results. The safety manager shall have direct access to the highest executive level and shall 181 report on the performance of the safety program to the metal building assembler's management 182 for use as a basis for improvement of the safety program. 183 2.28. Safety Plan: A written document that describes the procedures and policies implemented to 184 ensure the safety of all persons and things. 185 2.29. Senior Contractor Supervisor: The individual designated by the contractor who has overall 186 authority and responsibility for work performed by that contractor, including the Contractor 187 Safety and Health Program.
- 188 2.30. Senior Project Supervisor: The individual designated by the project constructor with final
   189 authority and overall responsibility for all construction and related activities, including the
   190 Project Safety and Health Program.
- 191 2.31. Subcontractor: An individual or in many cases a business that signs a contract to perform part
   192 or all of the obligations of another's contract; a subcontractor is a person who is hired by a
   193 general contractor (or prime contractor, or main contractor) to perform a specific task as part of
   194 the overall project and is normally paid for services provided to the project by the originating
   195 general contractor.
- 196 2.32. WPS: Welding Procedure Specification in accordance with AWS D1.1 or AWS D1.3 is
   197 required, as applicable.
- 198

### 199 **3. ELIGIBILITY**

- Accreditation services are available to metal building assemblers, erectors and contractors who are
   substantially engaged in the assembly of metal buildings under DOT Code: 801.381-010; AIMS Code:
   0877.
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### 204 4. REQUIRED BASIC INFORMATION

- 4.1. Metal building assemblers must demonstrate compliance with the following requirements:
- 206

# 4.1.1. The requirements of these accreditation criteria;

- 2074.1.2.IAS Rules of Procedure for Accreditation of Inspection Practices of Metal Building208Assemblers.
- 209 4.2. General Requirements
- 2104.2.1. Metal building assemblers accredited under these criteria must obtain the services of211an IAS-accredited inspection or special inspection agency, which is accredited for the212specified discipline, to conduct, at a minimum, an annual inspection at a selected213jobsite

214	4.2.2.	The assembler of metal building systems shall establish and implement a management
215		system that is fully documented. This documented management system must describe
216		the assembly procedures and quality assurance activities for ensuring that the
217		assembly meets the specified requirements.
218	4.2.3.	The assembler of metal building systems shall submit to IAS for initial review, followed
219		up biennially, a documented management system, including a cross reference matrix
220		ensuring that the requirements in Section 4.3 of these accreditation criteria have been
221		included in the management system. The cross reference matrix must be signed by the
222		Quality Manager.
223	4.2.4.	The submitted management system document must be signed and dated by the
224		highest level of authority within the metal building assembler.
225	4.2.5.	Metal building assemblers applying for accreditation are subject to an initial on-site joint
226		assessment by IAS and the IAS-accredited inspection or special inspection agency
227		(jobsite that is approximately 75% complete, scheduled at a mutually convenient
228		time/location to ensure these criteria are being followed). The purpose of this
229		assessment is to determine efficacy of safety plans, training programs, and compliance
230		with eligibility for requirements and evaluation of the inspection or special inspection
231		agency's method of determining compliance prior to accreditation.
232	4.2.6.	Metal building assemblers accredited under these criteria will adhere to metal building
233		systems manufacturer's drawings, specifications and installation manuals.
234	4.2.7.	Metal building assemblers accredited under these criteria, that rely on subcontracted or
235		temporary labor must have documented procedures to show how they ensure
236		compliance of subcontracted and temporary labor with the relevant requirements of
237		these criteria.
238	4.2.8.	Metal building assemblers accredited under these criteria that subcontract all or a
239		significant portion of an assembly shall advise the contracting entity whether or not
240		work will be performed by an accredited entity.
241	4.2.9.	The accredited metal building assembler must maintain the following insurance
242		coverage:
243	4.2.9	9.1. Workmen's Compensation,
244	4.2.9	9.2. Comprehensive General Liability,
245	4.2.9	9.3. Comprehensive Automobile Liability,
246	4.2.9	0.4. Umbrella Excess Comprehensive General and Comprehensive Automobile.
247	4.2.10.	The following key personnel must be identified in the organization and their
248		responsibilities must be documented. The designated personnel must have clear
249		understanding of their assignments.

250	4.2.10.1. Quality Manager: Metal building assemblers accredited under these criteria
251	shall designate a quality manager who has the necessary training and experience to
252	complete the tasks listed below:
253	4.2.10.1.1. Develop and implement the management system, including generation of
254	appropriate documentation in accordance with these criteria;
255	4.2.10.1.2. Ensure that periodic (at a minimum, annually) internal audits are conducted
256	and documented, and that corrective actions are implemented.
257	
258	Internal Audits: Metal building assemblers shall identify the frequency,
259	method of documentation, and content of internal audits to determine the
260	effectiveness of the management system, safety, and training programs.
261	Internal audits must be conducted, at a minimum, annually. Audits shall
262	include a summary that compares the most recent audit to the previous audit
263	and shall include the elements of these criteria.
264	4.2.10.1.3. Ensure that management reviews (at a minimum, annually) are conducted
265	and documented to assure the adequacy and the effectiveness of the
266	management system. Management reviews must produce a summary and a
267	documented plan of action for improvement.
268	
269	Management Reviews: Reviews must be conducted and recorded to
270	ensure the adequacy and effectiveness of the quality, safety, and training
271	programs. Management reviews must produce a summary and a
272	documented plan of action for improvement. Documents to be considered
273	during the management review must include, but are not limited to, customer
274	complaints, back charges, OSHA violations, internal audit results, and
275	corrective actions.
276	4.2.10.2. Safety Manager: Metal building assemblers accredited under these criteria shall
277	designate a safety manager who has the necessary training and experience to
278	complete the tasks listed below. The safety manager shall report directly to the
279	highest level of authority within the organization. The safety manager shall (at a
280	minimum) have the following responsibilities:
281	4.2.10.2.1. Follow a documented procedure of maintaining the safety program in
282	accordance with these criteria.
283	4.2.10.2.2. Follow a documented procedure of monitoring the effective
284	implementation of the safety program.

285		4.2.10.2.3. Follow a documented procedure for developing jobsite-specific safety	/
286		plans and having knowledge of and access to the appropriate documents to	
287		meet this requirement.	
288		4.2.10.3. Training Manager: Metal building assemblers accredited under these criteria	а
289		shall designate a training manager who has the necessary training and experience	e to
290		complete the tasks listed below. The training manager shall report to the highest l	evel
291		of authority within the organization. The training manager shall (at a minimum) ha	ve
292		the following responsibilities:	
293		4.2.10.3.1. Follow a documented procedure of maintaining the training program i	n
294		accordance with these criteria.	
295		4.2.10.3.2. Follow a documented procedure of monitoring the effective	
296		implementation of the training program.	
297		4.2.10.3.3. Follow a documented procedure for developing training plans that me	eet
298		all OSHA requirements, building manufacturer requirements, and equipment	use
299		requirements for the assigned tasks. Have knowledge of and access to the	
300		appropriate resources to meet this requirement.	
301		NOTE: In some cases, the quality manager, training manager, and safety manager may be	the
302		same individual.	
303			
304	4.3.	Documented Management System Requirements	
305		A documented management system must be provided which includes the following details:	
306		4.3.1. Basic Information	
307		4.3.1.1. The name of the metal building assembler and its legal identity (company registra	ition
308		details),	
309		4.3.1.2. The physical address of the metal building assembler,	
310		4.3.1.3. The mailing address (if different),	
311		4.3.1.4. Name and title of the person serving as the IAS contact, including the telephone	
312		number and e-mail address.	
313		4.3.2. <b>Required Statements</b> : The following statements must be provided:	
314		4.3.2.1. All activities of the metal building assembler shall be directed in such a manner as	s to
315		ensure that the safety and training requirements of these criteria will be met.	
316		4.3.2.2. The elements of the safety and training programs will be disseminated to all	
317		personnel assigned activities that are involved with the assembly of metal building	gs.
517			
318		4.3.2.3. IAS will be notified, in writing, prior to any cancellation of the inspection agreemen	nt

320	4.3.2.4. IAS will be notified, in writing, by the accredited metal building assembler and the
321	inspection agency if follow-up inspections have not been conducted by the inspection
322	agency or special inspection agency.
323	4.3.2.5. IAS and the accredited inspection agency or special inspection agency must be
324	notified within 30 days of any changes in management personnel. As a minimum, this
325	would include the president, general manager, quality manager, safety manager and
326	training manager.
327	4.3.3. Control of Documents: Procedures for control of documents and data relating to
328	safety and training programs must be provided. This control shall include the following:
329	4.3.3.1. A document approval procedure,
330	4.3.3.2. A procedure to ensure that only current, approved documents are used,
331	4.3.3.3. A procedure to ensure that documents are available at all locations where necessary
332	for the proper functioning of the management system.
333	4.3.4. Training Program Documentation
334	4.3.4.1. Metal building assemblers accredited under these criteria shall establish, document
335	and implement a training program that ensures a qualified labor force competent in
336	techniques necessary to ensure the quality and integrity of assembled metal
337	buildings. There must be a procedure ensuring the training of personnel who
338	influence the quality of the finished assembly. The procedure must include provisions
339	for maintaining current personnel qualifications.
340	4.3.4.2. Metal building assemblers accredited under these criteria must have a procedure in
341	place for new hires to ensure they are trained adequately for assigned tasks.
342	4.3.4.3. The metal building assembler shall have procedures for storing, maintaining and
343	accessing training records and maintaining current personnel qualifications.
344	4.3.4.4. As a minimum, there must be training requirements established for foremen,
345	journeyworkers and apprentices regardless of whether or not there is a formal
346	apprenticeship program in place.
347	4.3.4.5. Training records must include the following:
348	4.3.4.5.1. Completed and dated training attendance records.
349	4.3.4.5.2. Documentation proving comprehension of training (e.g., test results).
350	4.3.4.5.3. Evaluations of employees and subcontractors.
351	4.3.4.5.4. Jobsite-specific plans training, as appropriate for the corresponding site-
352	specific project. These records should be available (either hard copy or
353	electronically) at the site-specific project for all employees who are part of the
354	workforce at the site-specific location:
355	4.3.4.5.4.1. Jobsite safety and fall protection,
356	4.3.4.5.4.2. Safety and emergency services,

357	4.3.4.5.4.3. Reading job plans and specifications.
358	4.3.4.5.4.4. Understanding manufacturer's standards and details.
359	4.3.4.5.4.5. Materials identification.
360	4.3.4.5.4.6. Commonly-used tools and their proper use,
361	4.3.4.5.4.7. Proper care of equipment,
362	4.3.4.5.4.8. Construction cranes.
363	4.3.4.5.4.9. Forklifts, man-lifts, and scissor lifts,
364	4.3.4.5.4.10. Pre-assembled concrete and anchor rods,
365	4.3.4.5.4.11. Conditions at work site prior to assembly,
366	4.3.4.5.4.12. Hoisting,
367	4.3.4.5.4.13. Rigging,
368	4.3.4.5.4.14. Signal person,
369	4.3.4.5.4.15. Materials staging:
370	4.3.4.5.4.15.1. Materials planning and scheduling,
371	4.3.4.5.4.15.2. Materials handling and inventory,
372	4.3.4.5.4.15.3. Materials storage and protection,
373	4.3.4.5.4.15.4. Materials unloading and shake-out,
374	4.3.4.5.4.16. Structural:
375	4.3.4.5.4.16.1. Primary framing, including any special bolting requirements
376	identified within the contract documents.
377	4.3.4.5.4.16.2. Secondary framing,
378	4.3.4.5.4.16.3. Bracing (temporary and permanent),
379	4.3.4.5.4.16.4. Plumbing and squareness,
380	4.3.4.5.4.16.5. Detailing,
381	4.3.4.5.4.17. Wall Covering, including any special training requirements defined as
382	necessary by the Metal Building Manufacturer:
383	4.3.4.5.4.17.1. Wall panels,
384	4.3.4.5.4.17.2. Insulated metal panels,
385	4.3.4.5.4.17.3. Layout,
386	4.3.4.5.4.17.4. Insulation,
387	4.3.4.5.4.17.5. Standard ribbing panels,
388	4.3.4.5.4.17.6. Composite panels,
389	4.3.4.5.4.18. Roof panels, including any special training requirements defined as
390	necessary by the Metal Building Manufacturer:
391	4.3.4.5.4.18.1. Layout,
392	4.3.4.5.4.18.2. Insulated metal panels,
393	4.3.4.5.4.18.3. Insulation,

394	4.3.4.5.4.18.4. Standard ribbing panels,
395	4.3.4.5.4.18.5. Standing seam panels,
396	4.3.4.5.4.18.6. Composite panels,
397	4.3.4.5.4.18.7. Built-up roof panel system,
398	4.3.4.5.4.19. Trim and flashing, including any special training requirements defined
399	as necessary by the Metal Building Manufacturer:
400	4.3.4.5.4.19.1. Wall trims,
401	4.3.4.5.4.19.2. Wall accessories,
402	4.3.4.5.4.19.3. Roof trims,
403	4.3.4.5.4.19.4. Roof accessories,
404	4.3.4.5.4.20. Job completion,
405	4.3.4.5.4.21. Final clean-up,
406	4.3.4.5.5. OSHA 10 for all employees with more than one year of service, These
407	records should be available (either hard copy or electronically) at the site-
408	specific project for all employees that are part of the workforce at the site-
409	specific location;
410	4.3.4.5.6. Metal Buildings Institute Quality and Craftsmanship Training Series or
411	Ironworker Quality Construction Practices Metal Building Systems Training;
412	4.3.4.5.7. Any other required certifications and formal training necessary to perform the
413	required tasks, including but not limited to:
414	4.3.4.5.7.1. Welding,
415	4.3.4.5.7.2. Aerial lift operator,
416	4.3.4.5.7.3. Forklift operator,
417	4.3.4.5.7.4. Crane operator.
418	4.3.4.5.7.5. Specialty items, such as scaffolding, tools, products and/or equipment
419	that require documented training prior to use.
420	4.3.5. Safety Program Documentation
421	4.3.5.1. Metal building assemblers accredited under these criteria shall establish and
422	implement a safety program that is fully documented. This program must describe the
423	procedures and activities for ensuring that all employees, subcontractors and
424	processes comply with minimum OSHA standards and/or applicable regulatory
425	requirements.
426	4.3.5.2. Metal building assemblers accredited under these criteria must have documented
427	procedures for the development of jobsite-specific plans prior to commencement of
428	work.
429	4.3.5.3. The safety program document must be signed and dated by the highest level of
430	authority within the metal building assembler.

432       4.3.5.5. Job Safety Analysis documents to be used.         433       4.4       Inspection and Special Inspection Agency - Requirements and Responsibilities         435       The following sections note the minimum requirements and responsibilities of the IAS- accredited inspection agency or special inspection agency:         437       4.1.1       Inspection agency personnel will conduct an annual jobsite inspection scheduled at a mutually convenient time/location to ensure inspection of a building that is approximately 75% complete; therefore, inspection must be announced.         440       4.2.1       IAS will be notified, in writing, prior to any cancellation of the inspection agreement with the accredited metal building assembler.         441       the accredited metal building assembler.         442       4.3.1       IAS will be notified, in writing, by the accredited entity and the inspection or special inspection agency.         443       inspection agency.       4.4.1         444       or special inspection report, at a minimum, must include the following information and reference to:         445       4.4.1.1       A site ispectific project plan.         448       4.4.1.1.1       A site layout plan.         451       4.4.4.1.3       JSK's lob safety analysis.         451       4.4.4.1.5       Quality control plan.         452       4.4.4.1.6       Nartive regarding the erction plan.         453	431		4.3.5.4. The safety program document must be reviewed at least annually.
434       4.4. Inspection and Special Inspection Agency – Requirements and responsibilities         435       The following sections note the minimum requirements and responsibilities of the IAS-         436       accredited inspection agency or special inspection agency:         437       4.4.1. Inspection agency personnel will conduct an annual jobsite inspection scheduled at a         438       mutually convenient time/location to ensure inspection of a building that is         439       approximately 75% complete; therefore, inspections must be announced.         440       4.4.2. IAS will be notified, in writing, by the accredited entity and the inspection agreement with         441       the accredited metal building assembler.         442       4.4.3. IAS will be notified, in writing, by the accredited entity and the inspection or special         443       inspection agency.         444       or special inspection reports. The inspection report, at a minimum, must include the following         445       4.4.4.1. On-site inspection records shall Include:         446       information and reference to:         447       4.4.4.1.2. Daily jobsite checklist.         450       4.4.4.1.3. JSA's gold safety analysis.         451       4.4.4.1.4. Site layout plan.         452       4.4.4.1.7. Records that demonstrate assembly proceeds only after concrete has         456       engineer of rec	432		4.3.5.5. Job Safety Analysis documents to be used.
435The following sections note the minimum requirements and responsibilities of the IAS- accredited inspection agency or special inspection agency:4374.1. Inspection agency personnel will conduct an annual jobsite inspection scheduled at a mutually convenient time/location to ensure inspection of a building that is approximately 75% complete; therefore, inspections must be announced.4404.4.2. IAS will be notified, in writing, prior to any cancellation of the inspection agreement with the accredited metal building assembler.4414.4.2. IAS will be notified, in writing, by the accredited entity and the inspection or special inspection agency if follow-up inspections have not been conducted by the inspection or special inspection agency.4454.4.4. Inspection Reports: The inspection report, at a minimum, must include the following information and reference to:4474.4.4.1. A site-specific project plan.4484.4.1.1. A site-specific project plan.4494.4.1.2. Daily jobsite checklist.4504.4.1.5. Quality control plan.4514.4.1.6. Narrative regarding the erection plan.4524.4.1.7. Records that demonstrate assembly proceeds only after concrete has sufficiently cured and that anchor rods, if modified, have the approval of the engineer of record.4574.4.2. Receiving/Storage: Process for unloading and inventorying.4584.4.3.1. Inspector to validate at least 30% of jobsite personnel. Inspector to list personnel verified and total number of personnel on jobsite.4594.4.3.3. Records of craft workers' certifications and training appropriate for their assigned task.4644.4.4.4.4.4.4.4.4.4.4.4.3. Receives	433		
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<ul> <li>engineer of record.</li> <li>457</li> <li>4.4.4.2. Receiving/Storage: Process for unloading and inventorying.</li> <li>458</li> <li>4.4.4.3. Training</li> <li>459</li> <li>4.4.4.3.1. Inspector to validate at least 30% of jobsite personnel. Inspector to list personnel verified and total number of personnel on jobsite.</li> <li>461</li> <li>4.4.4.3.2. OSHA 10 training for personnel on jobsite with at least one year experience.</li> <li>462</li> <li>4.4.4.3.3. Records of craft workers' certifications and training appropriate for their assigned task.</li> <li>464</li> <li>4.4.4.4. Welding and Bolting Requirements: Inspector must review the welding and bolting procedures required for the project.</li> </ul>	454		4.4.4.1.7. Records that demonstrate assembly proceeds only after concrete has
<ul> <li>457</li> <li>4.4.4.2. Receiving/Storage: Process for unloading and inventorying.</li> <li>458</li> <li>4.4.4.3. Training</li> <li>459</li> <li>4.4.4.3.1. Inspector to validate at least 30% of jobsite personnel. Inspector to list personnel verified and total number of personnel on jobsite.</li> <li>461</li> <li>4.4.4.3.2. OSHA 10 training for personnel on jobsite with at least one year experience.</li> <li>462</li> <li>4.4.4.3.3. Records of craft workers' certifications and training appropriate for their assigned task.</li> <li>464</li> <li>4.4.4.4. Welding and Bolting Requirements: Inspector must review the welding and bolting procedures required for the project.</li> </ul>	455		sufficiently cured and that anchor rods, if modified, have the approval of the
<ul> <li>458</li> <li>4.4.4.3. Training</li> <li>459</li> <li>4.4.4.3.1. Inspector to validate at least 30% of jobsite personnel. Inspector to list personnel verified and total number of personnel on jobsite.</li> <li>461</li> <li>4.4.4.3.2. OSHA 10 training for personnel on jobsite with at least one year experience.</li> <li>462</li> <li>4.4.4.3.3. Records of craft workers' certifications and training appropriate for their assigned task.</li> <li>464</li> <li>4.4.4.4. Welding and Bolting Requirements: Inspector must review the welding and bolting procedures required for the project.</li> </ul>	456		engineer of record.
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<ul> <li>460 personnel verified and total number of personnel on jobsite.</li> <li>461 4.4.4.3.2. OSHA 10 training for personnel on jobsite with at least one year experience.</li> <li>462 4.4.4.3.3. Records of craft workers' certifications and training appropriate for their</li> <li>463 assigned task.</li> <li>464 4.4.4.4. Welding and Bolting Requirements: Inspector must review the welding and bolting</li> <li>465 procedures required for the project.</li> </ul>	458		4.4.4.3. Training
<ul> <li>461</li> <li>4.4.4.3.2. OSHA 10 training for personnel on jobsite with at least one year experience.</li> <li>462</li> <li>4.4.4.3.3. Records of craft workers' certifications and training appropriate for their</li> <li>463</li> <li>464</li> <li>4.4.4.4. Welding and Bolting Requirements: Inspector must review the welding and bolting</li> <li>465</li> <li>464</li> </ul>	459		4.4.4.3.1. Inspector to validate at least 30% of jobsite personnel. Inspector to list
<ul> <li>462</li> <li>4.4.4.3.3. Records of craft workers' certifications and training appropriate for their</li> <li>463</li> <li>464</li> <li>4.4.4.4. Welding and Bolting Requirements: Inspector must review the welding and bolting</li> <li>465</li> <li>465</li> </ul>	460		personnel verified and total number of personnel on jobsite.
463assigned task.4644.4.4.4. Welding and Bolting Requirements: Inspector must review the welding and bolting465procedures required for the project.			4.4.4.3.2. OSHA 10 training for personnel on jobsite with at least one year experience.
<ul> <li>464</li> <li>4.4.4.4. Welding and Bolting Requirements: Inspector must review the welding and bolting</li> <li>465 procedures required for the project.</li> </ul>			4.4.4.3.3. Records of craft workers' certifications and training appropriate for their
465 procedures required for the project.			assigned task.
466			procedures required for the project.
	466		

467	4.5.	Onsite Job-specific Assessment: The minimum requirements of the IAS onsite job-specific
468		assessment and verification of jobsite-specific documentation are as follows:
469		4.5.1. IAS personnel will conduct an initial onsite inspection, followed up the second year and
470		then biennially; scheduled at a mutually convenient time/location to ensure inspection
471		of a building that is approximately 75% complete; therefore, inspections must be
472		announced.
473		4.5.2. Basic Information;
474		4.5.2.1. The name of the metal building assembler and its legal identity (company registration
475		details),
476		4.5.2.2. The physical address of the metal building assembler,
477		4.5.2.3. The mailing address (if different),
478		4.5.2.4. Name and title of the person serving as the IAS contact, including the telephone
479		number and e-mail address,
480		4.5.2.5. The physical address of the specific jobsite,
481		4.5.2.6. The job-specific project name used to identify the project.
482		4.5.2.7. A set of Final erection drawings submitted by the Metal Building Manufacturer.
483		4.5.3. Required Statements: The following statements must be provided:
484		4.5.3.1. All activities of the metal building assembler shall be directed in such a manner as to
485		ensure the safety and training requirements of these criteria will be met,
486		4.5.3.2. The element of the safety and training program will be disseminated to all personnel
487		assigned activities who are involved with the assembly of metal buildings,
488		4.5.3.3. IAS and the accredited inspection agency or special inspection agency must be
489		notified within 30 days of any changes in management personnel. As a minimum, this
490		would include the president, general manager, quality manager, safety manager, and
491		training manager,
492		4.5.4. Control of Documents: Procedures for control of documents and data relating to
493		safety and training programs must be provided. This control shall include the following:
494		4.5.4.1. Verify that the latest approved document is being followed,
495		4.5.4.2. Verify that only the current, approved documents are being used,
496		4.5.4.3. Verify that documents are available at all locations where necessary for the proper
497		functioning of the management system,
498		4.5.5. Field Personnel Training Program Documentation
499		4.5.5.1. Verify that the training program implemented by the metal building assemblers
500		accredited under these criteria to ensure a qualified labor force (including new hires)
501		competent in techniques necessary to ensure the quality and integrity of assembled
502		metal buildings is documented, been read by all employees working onsite, and
503		understood by all employees working onsite,

504	4.5.5.2. Verify that the metal building assembler is following their documented procedures for
505	storing, maintaining, and accessing training records and maintaining personnel
506	qualifications,
507	4.5.5.3. Verify the training requirements established for foremen, journey workers, and
508	apprentices have been followed, regardless of whether there is a formal
509	apprenticeship program in place.
510	4.5.5.4. Verify that the training program is documented to ensure at least 50% of personnel at
511	the specific jobsite are qualified for the task at hand,
512	4.5.5.5. Verify that the training program is documented to ensure at least 25% of the work
513	force at the specific jobsite have achieved the journey worker status or equivalent,
514	4.5.5.6. Verify that the training program records for personnel on the specific jobsite consist of
515	documentation that include the following:
516	4.5.5.6.1. Completed and dated training attendance records,
517	4.5.5.6.2. Documentation proving comprehension of training (e.g., passing test results),
518	4.5.5.6.3. Evaluations of employees and subcontractors,
519	4.5.5.6.4. Site-specific plans training, as appropriate, for the corresponding site-specific
520	project. These should be available (either hard copy or electronically) at the
521	site-specific project for all employees that are part of the workforce at the
522	site-specific location:
523	4.5.5.6.4.1. Reading job plans and specifications,
524	4.5.5.6.4.2. Understanding manufacturer's standards and details,
525	4.5.5.6.4.3. Materials identification,
526	4.5.5.6.4.4. Commonly used tools and their proper use,
527	4.5.5.6.4.5. Proper care of equipment,
528	4.5.5.6.4.6. Construction cranes,
529	4.5.5.6.4.7. Forklifts, man-lifts, and scissor-lifts,
530	4.5.5.6.4.8. Pre-assembled concrete and anchor rods,
531	4.5.5.6.4.9. Conditions at work site prior to assembly,
532	4.5.5.6.4.10. Hoisting,
533	4.5.5.6.4.11. Rigging.
534	4.5.5.6.4.12. Signal person,
535	4.5.5.6.4.13. Materials staging:
536	4.5.5.6.4.13.1. Materials planning and scheduling,
537	4.5.5.6.4.13.2. Materials handling and inventory; any special requirements from
538	the material supplier,
539	4.5.5.6.4.13.3. Materials storage and protection,

540	4.5.5.6.4.13.4. Materials unloading and shake-out; process of documenting
541	receipt of damaged material,
542	4.5.5.6.4.14. Structural:
543	4.5.5.6.4.14.1. Primary framing,
544	4.5.5.6.4.14.1.1. Any special bolting requirements identified within the
545	contract documents,
546	4.5.5.6.4.14.1.2. Review any special welding procedures required,
547	4.5.5.6.4.14.2. Secondary framing; review any special welding procedures
548	required,
549	4.5.5.6.4.14.3. Permanent and temporary bracing,
550	4.5.5.6.4.14.4. Plumbing and squaring,
551	4.5.5.6.4.14.5. Detailing,
552	4.5.5.6.4.15. Wall covering, including any special training requirements defined as
553	necessary by the metal building manufacturer:
554	4.5.5.6.4.15.1. Wall panels,
555	4.5.5.6.4.15.2. Insulated metal panels,
556	4.5.5.6.4.15.3. Layout,
557	4.5.5.6.4.15.4. Insulation,
558	4.5.5.6.4.15.5. Standard ribbing panels,
559	4.5.5.6.4.15.6. Composite panels.
560	4.5.5.6.4.16. Roof panels, including any special training requirements defined as
561	necessary by the metal building manufacturer:
562	4.5.5.6.4.16.1. Roof panels,
563	4.5.5.6.4.16.2. Insulated metal panels,
564	4.5.5.6.4.16.3. Layout,
565	4.5.5.6.4.16.4. Insulation,
566	4.5.5.6.4.16.5. Standard ribbing panels,
567	4.5.5.6.4.16.6. Standing seam panels,
568	4.5.5.6.4.16.7. Composite panels,
569	4.5.5.6.4.17. Trim and flashing, including any special training requirements defined
570	as necessary by the metal building manufacturer:
571	4.5.5.6.4.17.1. Wall trims,
572	4.5.5.6.4.17.2. Wall accessories,
573	4.5.5.6.4.17.3. Roof trims,
574	4.5.5.6.4.17.4. Roof accessories,
575	4.5.5.6.4.18. Job completion,
576	4.5.5.6.4.19. Final clean-up,

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577	4.5.5.6.5.	Metal Buildings Institute Quality and Craftsmanship Training Series or
578		Ironworker Quality Construction Practices Metal Building Systems Training;
579	4.5.5.6.6.	Any other certifications and formal training necessary to perform the required
580		tasks, including but not limited to:
581	4.5.5.6.	6.1. Welding,
582	4.5.5.6.	6.2. Aerial lift operator,
583	4.5.5.6.	6.3. Forklift telehandler,
584	4.5.5.6.	6.4. Crane operator,
585	4.5.5.6.	6.5. Specialty items, such as scaffolding, tools, products, and/or equipment
586		that require documented training prior to use,
587	4.5.6. Field Per	sonnel Safety Program Documentation
588	4.5.6.1. Verify th	nat the safety program implemented by the metal building assemblers
589	accredit	ted under these criteria to ensure a qualified labor force (including new hires)
590	compet	ent in techniques necessary to ensure the quality and integrity of assembled
591	metal b	uildings is documented, been read by all employees working onsite, and
592	underst	ood by all employees working onsite,
593	4.5.6.2. Verify th	nat the metal building assembler is following their documented procedures for
594	storing,	maintaining, and accessing safety records and maintaining personnel
595	qualifica	ations,
596	4.5.6.3. Verify th	nat the safety program records for personnel on the specific jobsite consist of
597	docume	entation that include the following:
598	4.5.6.3.1.	Jobsite safety and fall protection,
599	4.5.6.3.2.	Safety and emergency services,
600	4.5.6.3.3.	Commonly used tools and their proper (safe) use,
601	4.5.6.3.4.	Proper (safe) care of equipment,
602	4.5.6.3.5.	Safe working conditions at construction crane site,
603	4.5.6.3.6.	Safe working conditions of forklifts, man-lifts, and scissor-lifts,
604	4.5.6.3.7.	Documented safe conditions at work site prior to assembly,
605	4.5.6.3.8.	Safe hoisting conditions,
606	4.5.6.3.9.	Safe rigging equipment conditions,
607	4.5.6.3.10.	Safe conditions followed by Signal person,
608	4.5.6.3.11.	Safe conditions surrounding materials staging: Safe material handling.
609	4.5.6.3.12.	Safe structural conditions observed:
610	4.5.6.3.	12.1. Installation of safe permanent bracing observed,
611	4.5.6.3.	12.2. Installation of safe temporary bracing observed,
612	4.5.6.3.13.	Safe wall panel installation procedures observed,
613	4.5.6.3.14.	Safe roof panel installation procedures observed,

614		4.5.6.3.15. Safe trim and flashing installation procedures observed,
615		4.5.6.3.16. Safe clean-up procedures observed,
616		4.5.6.4. OSHA 10 for all employees with more than one year of service. These records should
617		be available (either hard copy or electronically) at the site-specific project for all
618		employees that are part of the workforce at the site-specific location.
619		4.5.6.5. Completed Job Safety Analysis (JSA) forms,
620		
621	5.	ADDITIONAL INFORMATION (AS APPLICABLE)
622		5.1. Minimum Design Loads for Buildings and Other Structures (ASCE/SEI 7), published by the
623		American Society of Civil Engineers/Structural Engineering Institute.
624		5.2. Specification for Structural Steel Buildings (AISC 360), published by the American Institute of
625		Steel Construction.
626		5.3. AISI S100 – North American Specification for the Design of Cold-Formed Steel Structural
627		Members, published by the American Iron and Steel Institute.
628		5.4. IAS Accreditation Criteria for Inspection Agencies AC98.
629		5.5. MBMA Metal Building Systems Manual.
630		5.6. National Guidelines for Apprenticeship Standards developed by Metal Buildings Institute for the
631		occupation of Assembler, Pre-Engineered Metal Buildings, O*NET/SOC CODE 47-2221.00,
632		RAPIDS CODE: 0877, available at:
633		http://www.doleta.gov/oa/bul10/Bulletin_2010_09_Attachments.pdf.
634		5.7. Specification for Structural Joints Using High-Strength Bolts, available from the Research
635		Council on Structural Connections (RCSC).
636		5.8. Structural Bolting Handbook, published by the Steel Structures Technology Center, Inc.
637		
638	6.	LINKS TO ADDITIONAL REFERENCES:
639		6.1. IAS – <u>www.iasonline.org</u>
640		6.2. MBCEA – <u>www.mbcea.org</u>
641		6.3. IMPACT – <u>www.impact.org</u>
642		6.4. ICC – <u>www.iccsafe.org</u>
643		6.5. MBMA – <u>www.mbma.com</u>
644		

645 These criteria were previously issued February 2015, June 2015 and April 2017.