

Quality and Craftsmanship 101 – 11 module series

Goals/Opening Remarks

(5 hour 23 mins)

Module 1: During this module on Tools of the Trade you'll be able to navigate through the various types of tools and equipment that you are most likely to find on a metal building job site. The goal of this module is to teach you to visually recognize and name these various tools and construction equipment. This DVD is not designed to instruct you on the proper operation of equipment or tools. Hand and Power Tools, Ladders and Lifts, Personal Protective Equipment and Safety Gear, and Material Handling are shown. (16min)

Module 2: During this module, you will learn the proper way to prepare for delivery of your metal building, how to safely unload that building, how to organize the storage of building components, how to move those building materials around your job site, and how to stage materials to begin framing. (20:22min)

Module 3: During this module on framing we will take a look at the process and procedures for metal building framing, the tools you will need for this task, and the safety considerations involved with this building erection phase. (33:45min)

Module 4: During this module on doors and windows, we'll take a look at the process and procedures for installing windows and doors as well as other framed openings in a metal building. (26:25min)

Module 5: During this module you'll learn the terminology associated with insulation, and how fiberglass insulation works, and why we use it in metal buildings. You'll be able to tell the difference between standard home grade insulation and the types specifically designed for metal buildings. You'll learn additional materials that are needed to properly insulate a metal building and finally you will learn the safe and proper way to handle insulation for metal buildings. Our objective in this module is to answer the questions related to installing insulation. In later chapters you'll be shown different insulation systems and key differences regarding installation techniques. (32:54min)

Module 6: During this module on wall sheeting installation you will become acquainted with the procedures necessary for applying wall sheeting to the exterior of a metal building. We will take a look at how to ensure your building is square and plumb, how to properly handle wall panels, the steps for leveling girts and pre-drilling panels, how to install insulation, and of course actual wall sheeting application. (21:07min)

Module 7: During this module, we will emphasize the importance of developing and following a fall protection plan as well as some vital rules for safety when installing an

exposed fastener lap seam roof. You will learn how to ensure that your building is square and plumb, how to lay out a roof according to the manufacturer's requirements, how to handle roofing materials and stage them properly. You will learn the proper way to install NAIMA Certified insulation in the roof, and finally you will learn how to install an exposed fastener lap seam roof system correctly so that it will provide years of trouble-free service even in harsh climates. (51:26min)

Module 8: During this module you'll learn about the importance of developing and following a fall protection plan as well as some vital rules for safety when installing a standing seam roof. You will learn how to ensure that your building is square and plumb, how to lay out a roof according to the manufacturer's requirements, how to handle roofing materials and stage them properly. You will learn the proper way to install insulation in the roof, and finally you will learn how to install a standing seam roof system correctly so that it will provide years of trouble-free service even in harsh climates. (42:32min)

Module 9: Improper roof penetrations are the number one reason for callbacks in the metal building industry. They will most often also cause damage to the owner's facility and interrupt their business as well. Leaks from penetrations are very costly to repair for any installer. In this module we will show you the right way to handle most every roof penetration that will be specified for a metal building. This will help to reduce the chance of callbacks due to leaking penetrations. Those penetrations include curbs and flexible pipe flashing systems. (25:40min)

Module 10: The quality of a metal building will be determined largely by both the quality of manufacturing and the craftsmanship of the installer. Flashing, trim and gutters can provide either a mediocre appearance or a first-class professional finish. An installer is responsible for the handling of these materials, proper alignment, and correct installation using the specified procedures and hardware. You need to remember if you take a shortcut at this stage everyone will most likely be able to see it. (28:16min)

Module 11: In this module we will cover two areas that you most likely will not see in your average building. The first is an internal gutter. Internal gutters are used to divert water off of a roof system when a parapet condition occurs. Internal or interior gutters are also used when the architect does not want to see gutters or downspouts. The second area we will cover in this module is a transition. This is a location where special trim, flashing, and other components are installed to create a connection between vertical and horizontal surfaces, such as between a roof and a parapet wall. (24:29min)