



Tube and Clamp Scaffold Skills

ST2703TC



Program Length:

3 days (24 hours)

Who Should Attend:

Employees and supervisors responsible for erecting and dismantling tube and clamp scaffolding.

General:

This course teaches the fundamentals of safe scaffolding and participants learn the principles of basic scaffold design, as well as techniques for safe erection and dismantling.

Our instructors have years of experience building and training in scaffolds throughout North America. They have worked at diverse locations such as oil rigs, refineries, construction projects and power generating stations. The course is designed to enable construction companies to have a competent person trained in the erection and dismantling of scaffolding.

Participants learn how to build scaffolding for specific imposed loads and to understand the principles of tie-in theory and free standing scaffolds, gaining knowledge and practical skills that go hand-in-hand with proper erection and dismantling techniques using tube-and-clamp scaffolding for a variety of locations. A scaffold design is given and everyone is asked to conduct a build, from site hazard assessment right through to project completion and teardown. Scaffolds are built using well established principles, ensuring loading, outriggers, cantilevers and bracing requirements are adhered to throughout the erection phase. Everyone also learns the techniques and principles to alter original designs in order to solve specific work site problems, should they occur.

Learning Style:

Curriculum begins with a 4 hour classroom session on scaffolding regulations and manufacturer specifications, supplemented with video and PowerPoint presentations. Participants are required to perform basic math during class for platform loading so a calculator or device with simple calculator functions such as a smartphone or laptop is useful. Remainder of course is hands-on as participants build a variety of scaffolds.

Discussion Topics:

Course teaching points are, but not limited to, the following:

- Provincial / State regulations
- CSA requirements
- Manufacturer specifications
- Scaffold theory
- Basic design principles
- Tie-in theory and principles
- Scaffold loading
- Bracing fundamentals
- Outriggers
- Cantilevers
- 3-to-1 principle

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| Course Outlines | Doc Control #: ST2703TC | Original Date: 1-Aug-93 | |
| Original Prepared By: Arleigh Robar | Revised By: Linda Wilson | Revision No: 10L | Revision Date: 8-SEP-20 |
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Class Size:

Maximum 16 participants, minimum of 8 for on-site training.

Outcomes:

Training gives each participant the knowledge to design tube and clamp scaffolds in accordance with governing regulations, manufacturer specifications and standards associated with each component and type.

A wallet card denoting Tube and Clamp Scaffolding Skills is given to each participant upon successful completion of the course.

Contact Information:

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